RAYNOR

Overhead Type

DOORS

INDUSTRIAL — COMMERCIAL — RESIDENTIAL

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COMMERCIAL - INDUSTRIAL

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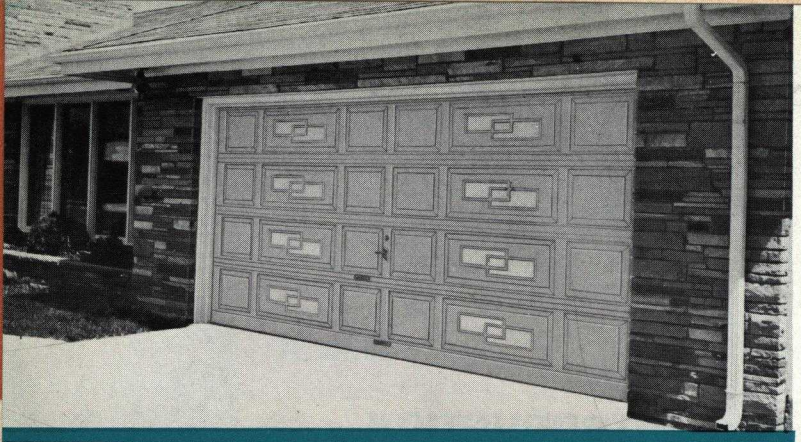
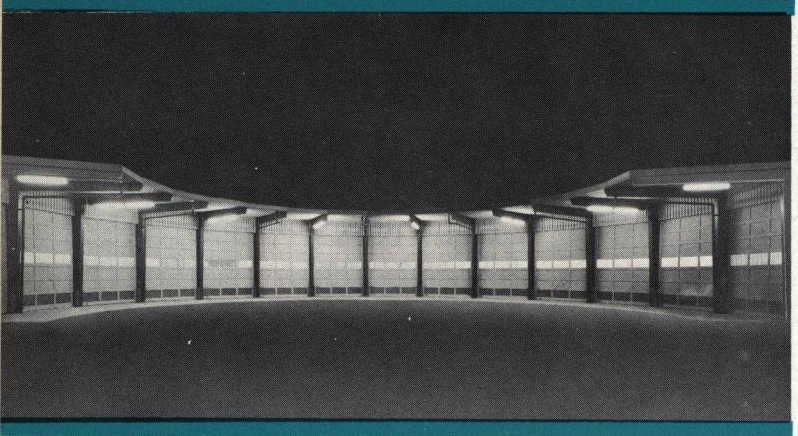
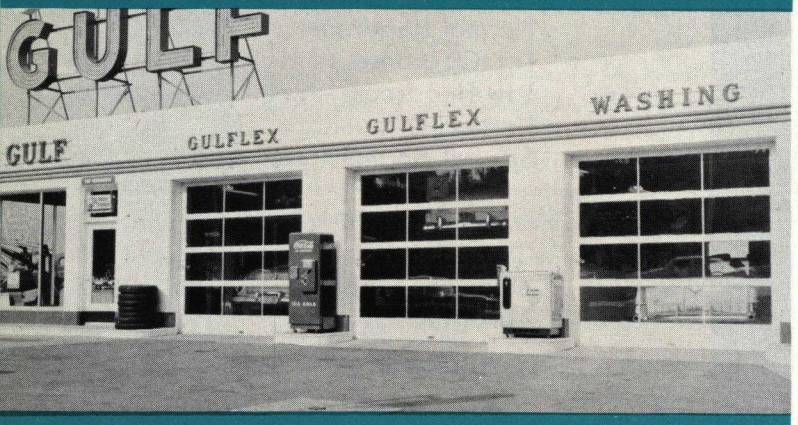
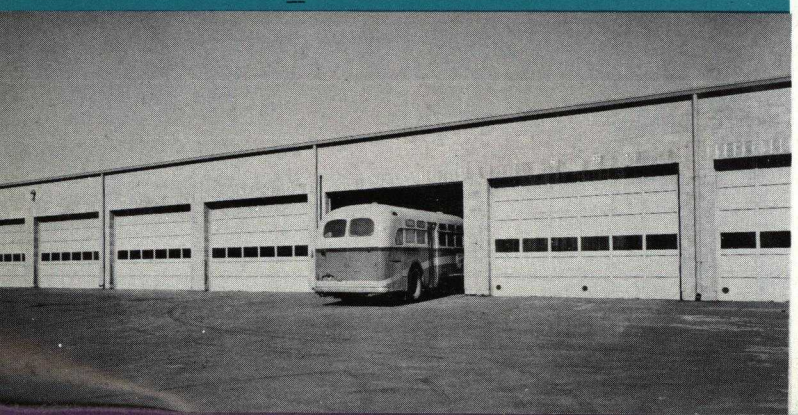


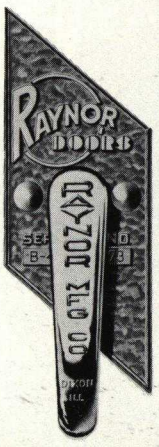




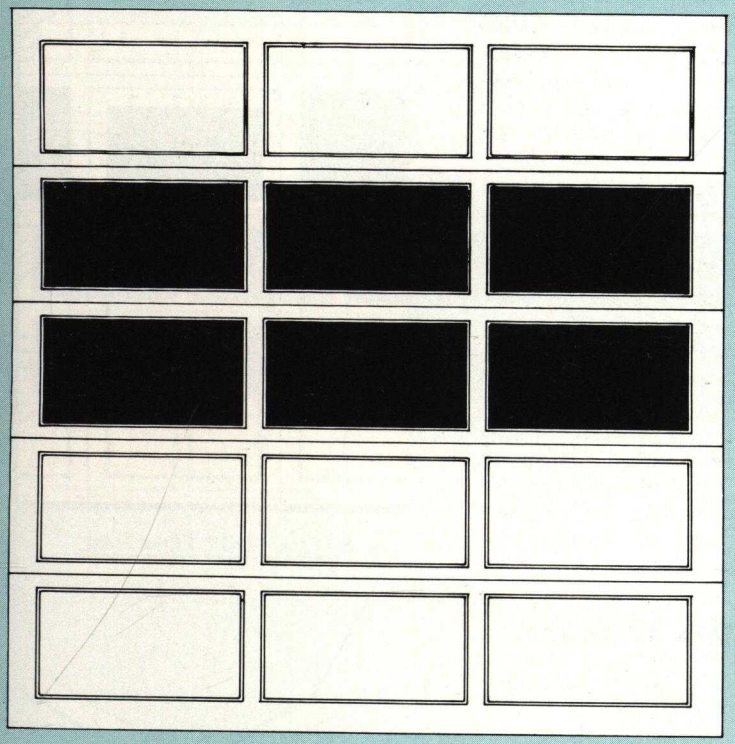


RAYNOR FEATURES

- Mortise and Tenon Construction
- "Graduated Seal" for Weather-tight Closing
- Galvanized Hardware
- "Ray-Cor" Flush Doors
- "Floating Carved Panel" Doors
- Lifetime Guarantee Dorlux Panels
- Quality Controlled Production
- Manufactured Under One Roof
- A Complete Line . . . Residential, Commercial, Industrial

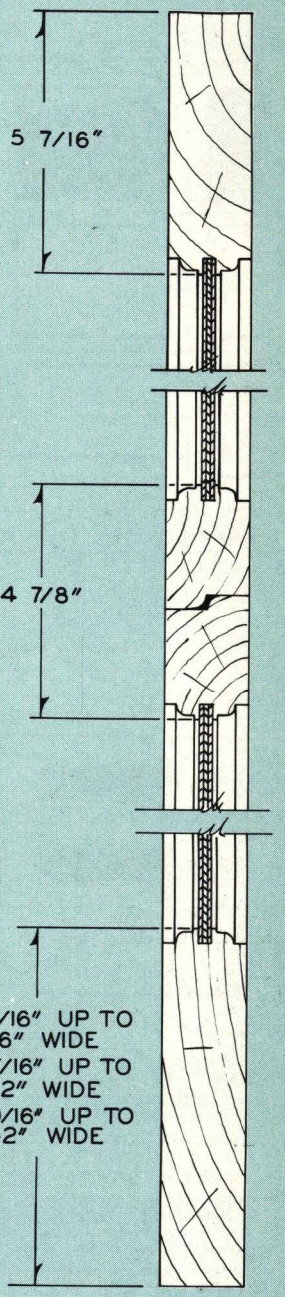
The Mark  *of Quality*

COMMERCIAL AND INDUSTRIAL DOOR DETAILS

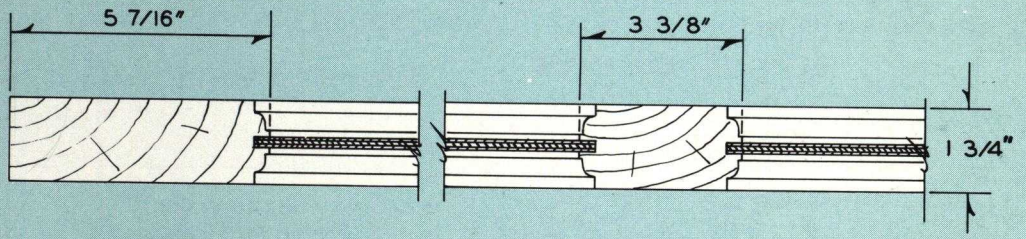


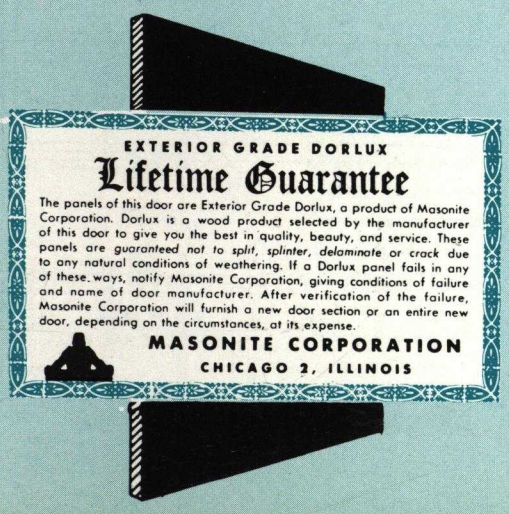
PANEL DOORS

Stiles and rails are of the finest quality kiln dried Sitka spruce or Douglas fir 1¾" thick. Section joints are blind mortised and tenoned, steel dowelled and waterproof glued. Panels are ¼" Dorlux with lifetime guarantee. Panels of ⅜" exterior fir plywood available on request. All sections sanded ready for paint. Stop moulding ¾" x 2⅝" and glass moulding furnished as standard equipment. Any or all sections may be left open for glass. Special section and panel arrangements available as required.



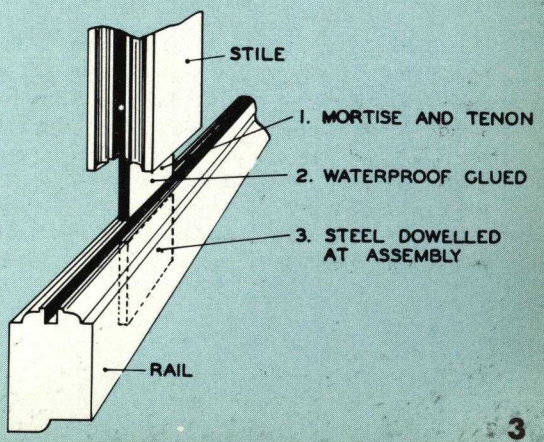
DOOR WIDTH	PANELS WIDE	DOOR HEIGHT	SECTIONS HIGH
UP TO 8'–6"	2	UP TO 8'–6"	4
8'–7" TO 11'–11"	3	8'–7" TO 10'–6"	5
12'–0" TO 14'–11"	4	10'–7" TO 12'–6"	6
15'–0" TO 17'–11"	5	12'–7" TO 14'–6"	7
18'–0" TO 20'–11"	6	14'–7" TO 16'–6"	8
21'–0" TO 26'–2"	8	OVER 16'–6"	9
OVER 26'–2"	10		





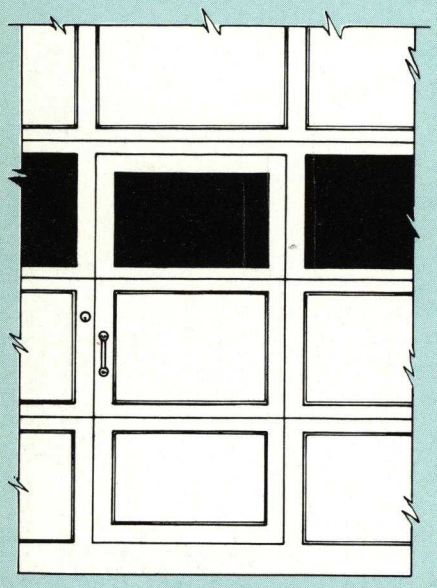
All Raynor commercial and industrial doors furnished with ¼" Masonite Dorlux panels with Lifetime Guarantee.

"THREE WAY STRESS" CONSTRUCTION



COMMERCIAL AND INDUSTRIAL

PASS DOORS



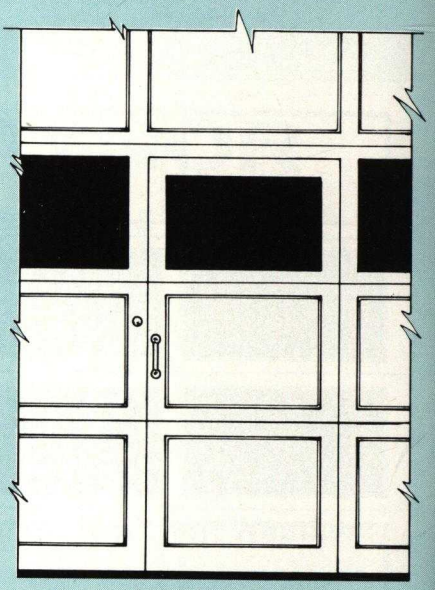
WOOD BOTTOM RAIL

WOOD BOTTOM RAIL

Furnished complete with spring hinges, air check, snubber chain and Yale lock. Pass door rabbetted at sides and top for ½" lap assuring Weather-tite seal. Threshold is covered with ⅛" steel strip. Doors over 14'–2" wide are furnished with center support track. Doors over 15'–2" wide are furnished with center lift cable. Parent door not to exceed 20'–2" wide. Pass door maximum 32" wide, 3 or 4 sections high. Average height from floor 68". All pass doors swing out.

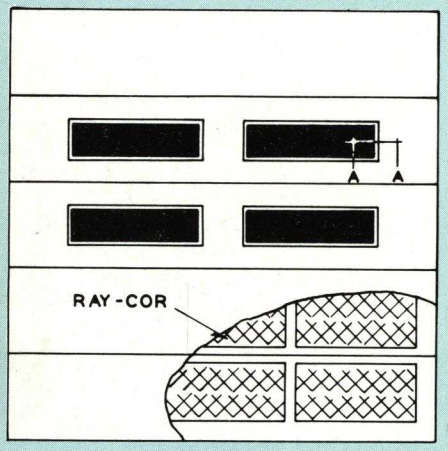
STEEL BOTTOM RAIL

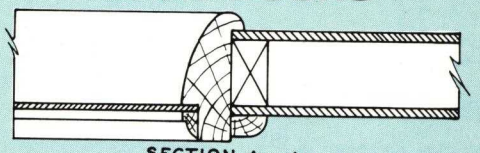
Furnished complete with spring hinges, air check, snubber chain and Yale lock. Bottom rail of main door is cut through to allow passage of shop trucks and small vehicles. A ⅝" x 1¾" bar applied to the full width of door. Pass door rabbetted on sides and top for ½" lap assuring Weather-tite seal. Doors over 12'–2" wide furnished with center support track. Doors over 15'–2" wide are furnished with center lift cable. Parent door not to exceed 16'–2" wide. Pass door maximum 32" wide, 3 or 4 sections high. Average height 68" from floor. All pass doors swing out.



STEEL BOTTOM RAIL

FLUSH DOORS

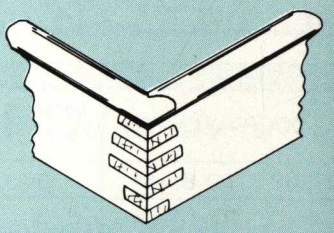




SECTION A –A
SCALE – 3" = 1'-0"

All Raynor Industrial flush doors are 1¾" thick and constructed with the exclusive Ray-Cor grid design. Ray-Cor consists of ¼" interlocking strips of wood inside a stile and rail frame. Face material may be either Dorlux with lifetime guarantee of ¼" exterior grade fir plywood. Either face material bonded to frame and core with waterproof glue under heat and pressure. No nails to mar the surface of the door.

Flush doors are not to exceed 18' wide or 216 sq. ft. on 2" tracks.

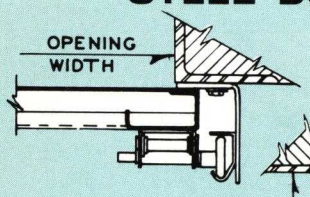


FINGER JOINT CORNER OF GLASS INSERT FRAME.

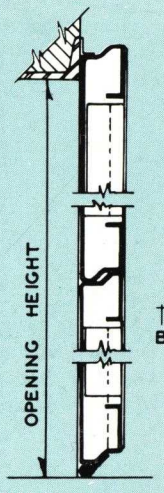
Interlocking finger joints guarantee against any parting or opening of corner. The contour of the moulding assures complete drainage of water.

HARDWARE LIMITS WITH STEEL SECTIONS			
OPENING SIZE			HARDWARE MODEL
WIDTH	HEIGHT	SQ. FT.	
10'-0"	10'-0"	90	T15-T24-TL65
16'-0"	16'-0"	180	T16-T25
24'-0"	16'-0"	300	T18-T26

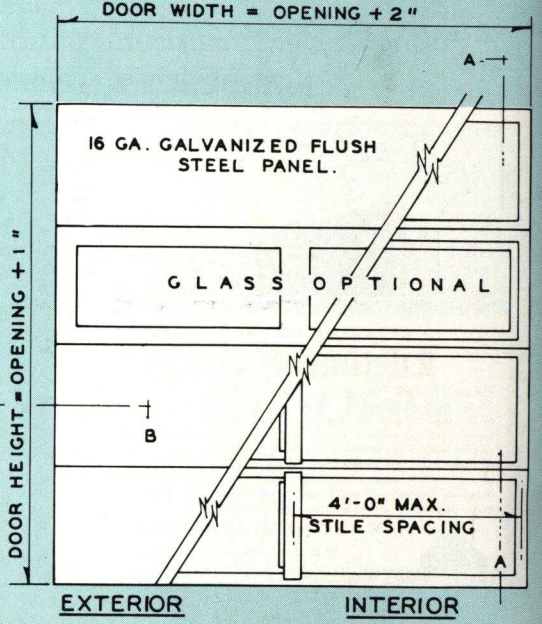
STEEL DOORS



SECTION B–B



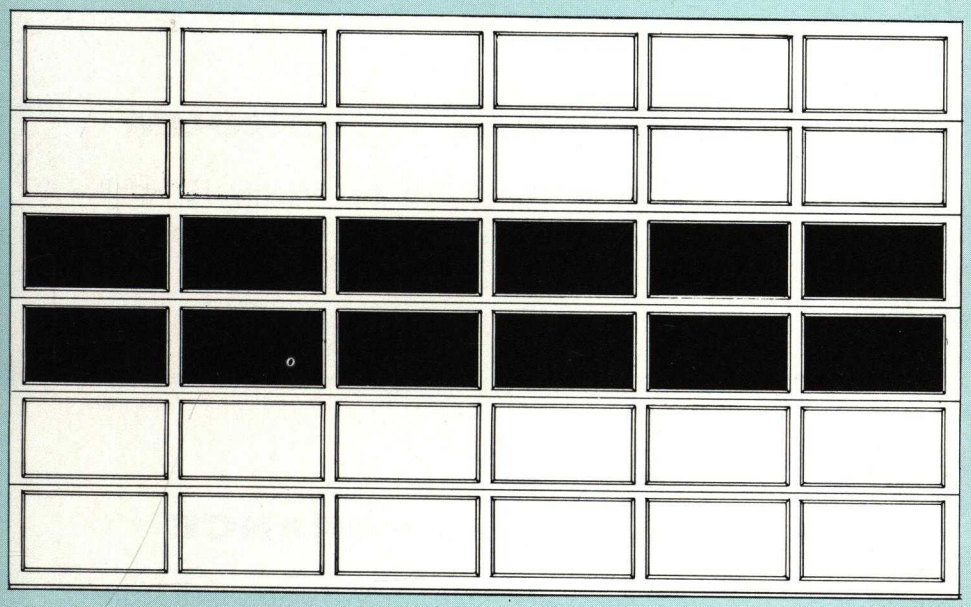
SECTION A–A

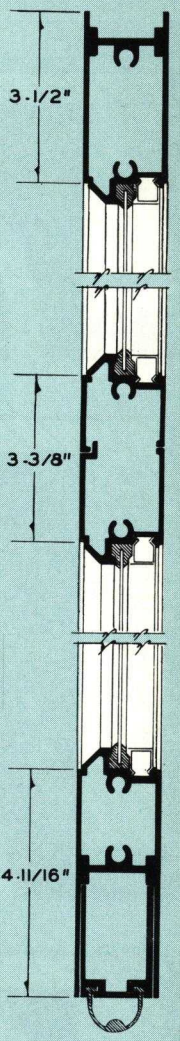


Raynor flush steel doors are fabricated from 16 gauge galvanized steel having a coating of 1.75 ounce per square foot as per ASTM standards and chemically treated to insure paint adhesion. Doors are 1¾" thick and edges are formed to produce a Weather-tite shiplap joint. All doors adequately reinforced to withstand a wind pressure of 20 pounds per square foot. Doors furnished with sealing strip at top and continuous rubber astragal at bottom. Glass installed with Weather-tite continuous rubber sealing strip.

DOOR DETAILS

ALUMINUM Regular Construction

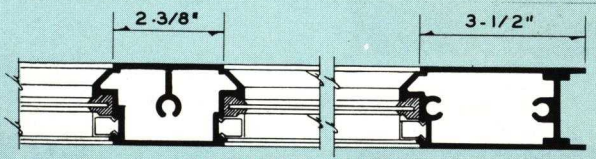




VERTICAL SECTION

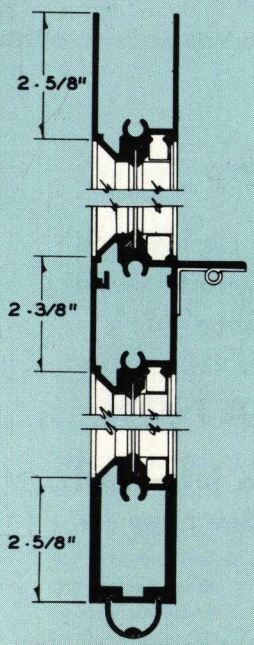
Raynor aluminum doors are made of 6063T6 extruded aluminum alloy, heat treated. All parts anodized for permanent luster. Glass and .062 aluminum panels are encased in vinyl moulding and are securely locked in place with a snap-in aluminum bead. Adjustable vinyl astragal is applied to bottom rail of door. 240 square feet maximum. 20'-2" maximum width, 16'-1" maximum height.

DOOR WIDTH	PANELS WIDE	DOOR HEIGHT	SECTIONS HIGH
UP TO 8'-6"	2	UP TO 8'-6"	4
8'-7" TO 11'-11"	3	8'-7" TO 10'-6"	5
12'-0" TO 14'-11"	4	10'-7" TO 12'-6"	6
15'-0" TO 17'-11"	5	12'-7" TO 14'-6"	7
18'-0" TO 20'-2"	6	14'-7" TO 16'-1"	8

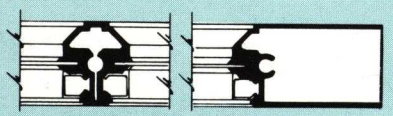


HORIZONTAL SECTION

ALUMINUM Narrow Line Construction

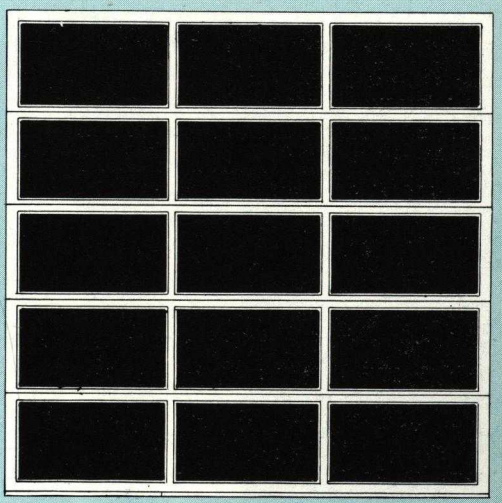


VERTICAL SECTION



HORIZONTAL SECTION

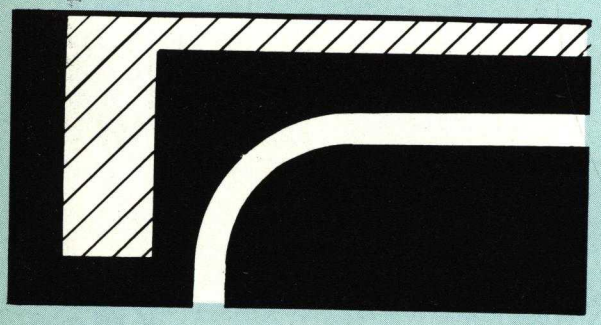
Raynor aluminum narrow line doors are made of 6063T6 extruded aluminum alloy, heat treated. All parts anodized for permanent luster. Glass and .062 aluminum panels are encased in vinyl moulding and are securely locked in place with a snap-in aluminum bead. Adjustable vinyl weatherstrip is applied to bottom rail of door. 1⅜" high reinforcing web is a part of the weathertite meeting rails.
144 square feet maximum. 12'-2" maximum width, 12'-1" maximum height.



EXTERIOR ELEVATION

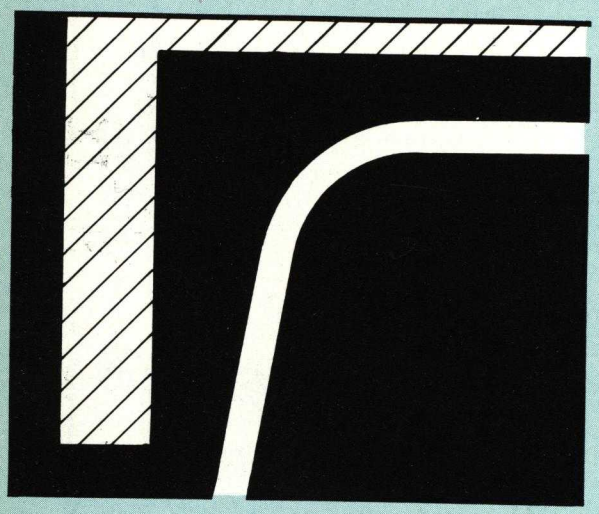
Selection Chart for
RAYNOR COMMERCIAL AND INDUSTRIAL DOORS

Your Guide for Selecting the Right Door for Any Type Installation



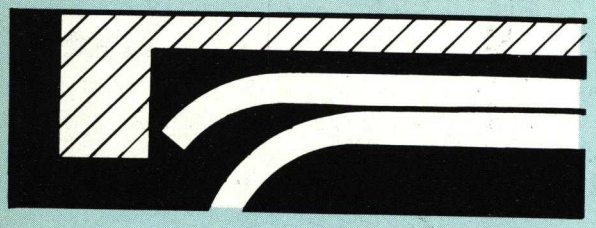
NORMAL HEADROOM

This hardware used on the majority of installations. See models T15, T16 and T18; pages 7, 8 and 9.



LIFT CLEARANCE

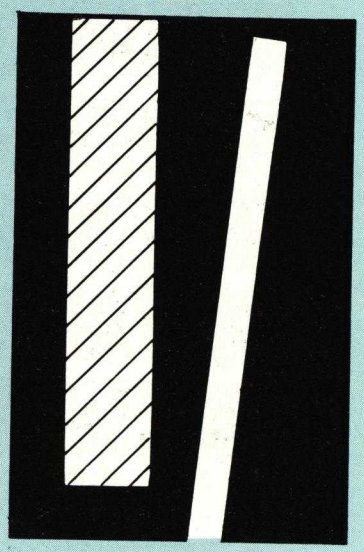
This hardware used where more than normal clearance under horizontal track is required. Especially desirable in service stations, truck docks and some warehouse installations. See models T24, T25 and T26; pages 10, 11 and 12.



LOW HEADROOM

This hardware used on limited headroom installations.

See Model TL65, TL9, TL11; page 13.



VERTICAL LIFT

This hardware used wherever ceiling is high and depth is limited or where horizontal tracks would form an obstruction. Model VL22; page 14.

SPECIAL APPLICATION

Hardware can be manufactured to follow roof contour or to fit special conditions. See page 15.

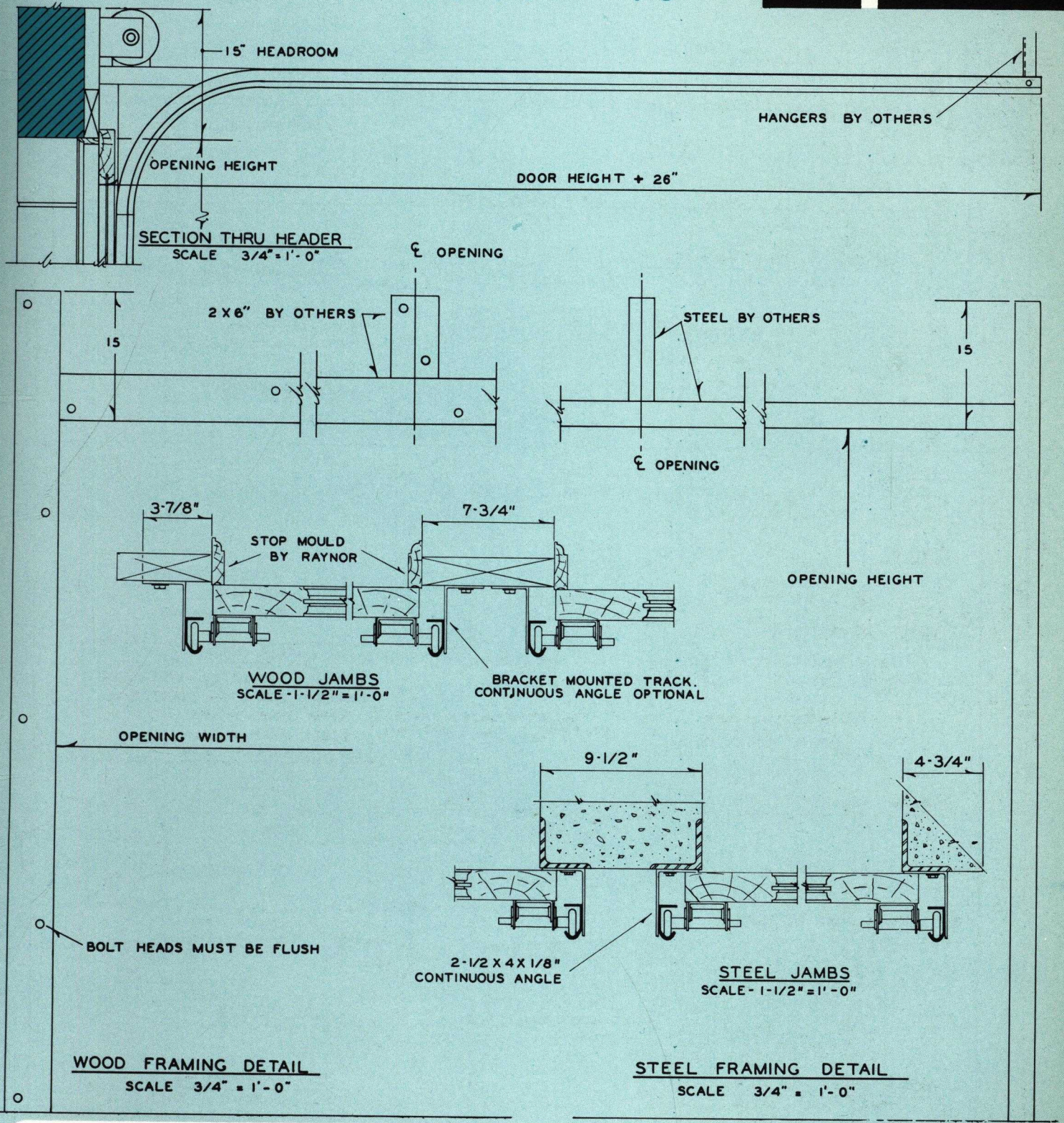
SMALL COMMERCIAL and INDUSTRIAL

128 sq. ft. max. — model T15

Not to exceed 18′–2″ wide — Not to exceed 10′–7″ high

Door Details — pages 3, 4 & 5 Auxiliary Equipment — page 16

16i Ray NORMAL HEADROOM



SPECIFICATIONS: Doors shall be Raynor Model T15, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 2″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted with brackets or continuous angle to wood jambs, mounted with continuous angle to steel jambs. Continuous angle size 2½″ x 4″ x ⅛″. Horizontal track reinforced with 2″ x 2″ x ⅛″ angle.

Doors shall be counterbalanced with heavy duty torsion springs on continuous, ball bearing cross header shaft.

Five pin tumbler cylinder side lock, right or left side installation.

Rollers shall be heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

Manual or electric operation.

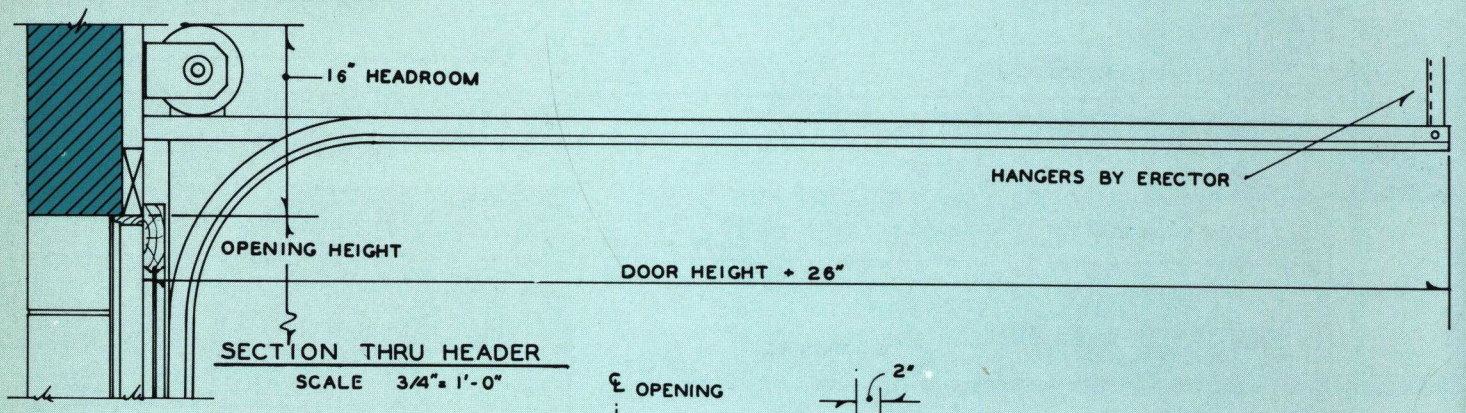
NORMAL HEADROOM

MEDIUM COMMERCIAL and INDUSTRIAL

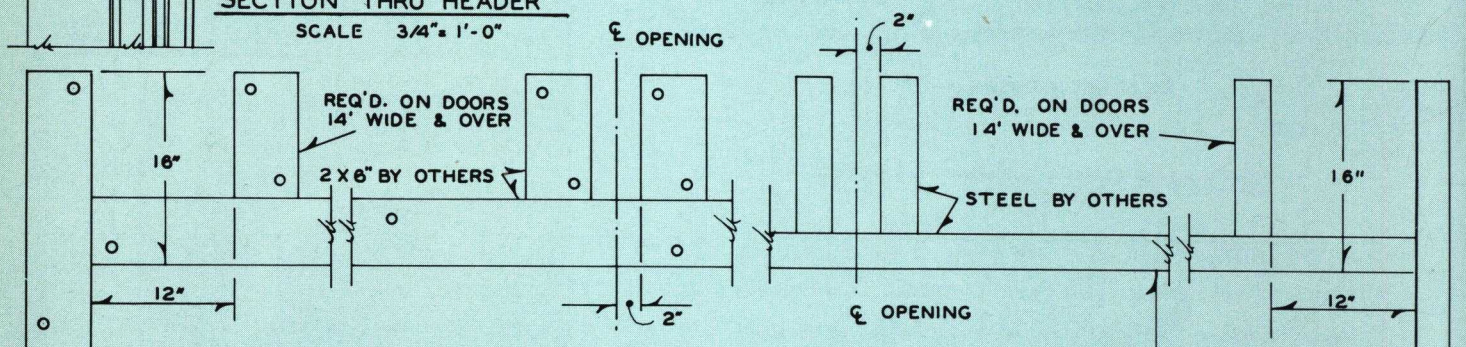
240 sq. ft. max. — model T16

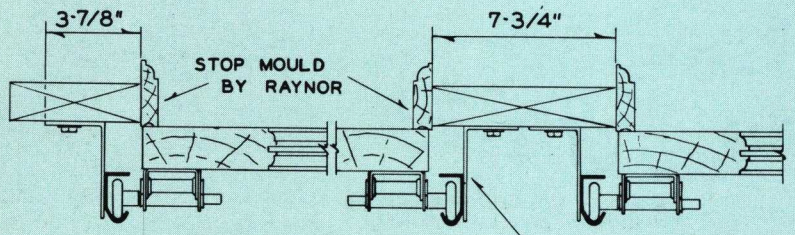
Not to exceed 20′–2″ wide — Not to exceed 16′–1″ high

Door Details — pages 3, 4 & 5 — Auxiliary Equipment — page 16



SECTION THRU HEADER
SCALE 3/4" = 1'-0"





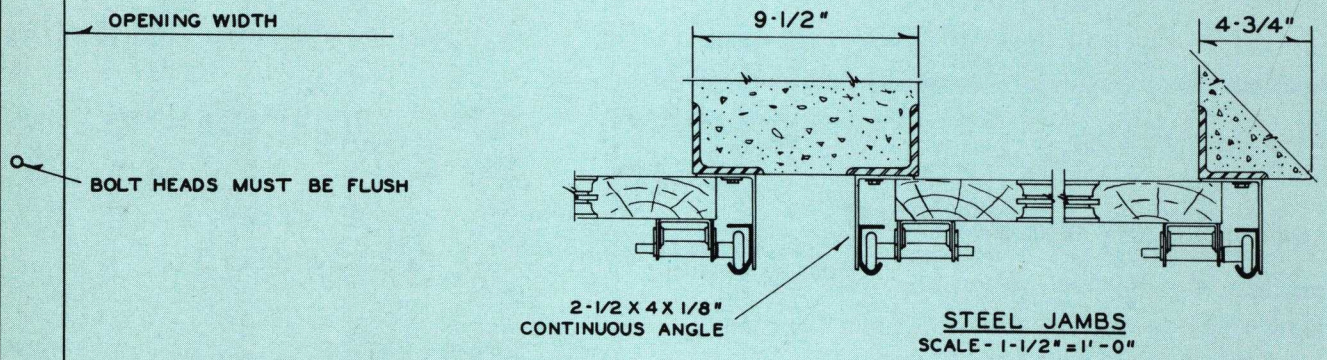
WOOD JAMBS
SCALE - 1-1/2" = 1'-0"

BRACKET MOUNTED TRACK. CONTINUOUS ANGLE OPTIONAL

OPENING HEIGHT

CHAIN HOIST

MAY BE MOUNTED ON EITHER SIDE.
SIDEROOM REQ'D. ON HOIST SIDE:
WOOD JAMB - 5-3/4"
STEEL JAMB - 6-3/4"
SEE DETAILS - PAGE 16



STEEL JAMBS
SCALE - 1-1/2" = 1'-0"

WOOD FRAMING DETAIL
SCALE 3/4" = 1'-0"

STEEL FRAMING DETAIL
SCALE 3/4" = 1'-0"

SPECIFICATIONS: Doors shall be Raynor Model T16, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 2″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted with brackets or continuous angle to wood jambs, mounted with continuous angle to steel jambs. Continuous angle size 2½″ x 4″ x ⅛″. Horizontal track reinforced with 2½″ x 2″ x 3/16″ angle.

Doors shall be counterbalanced with heavy duty torsion springs on continuous, ball bearing solid cross header shaft.

Five pin tumbler cylinder side lock, right or left side installation.

Rollers shall be heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

Manual, chain hoist or electric operation.

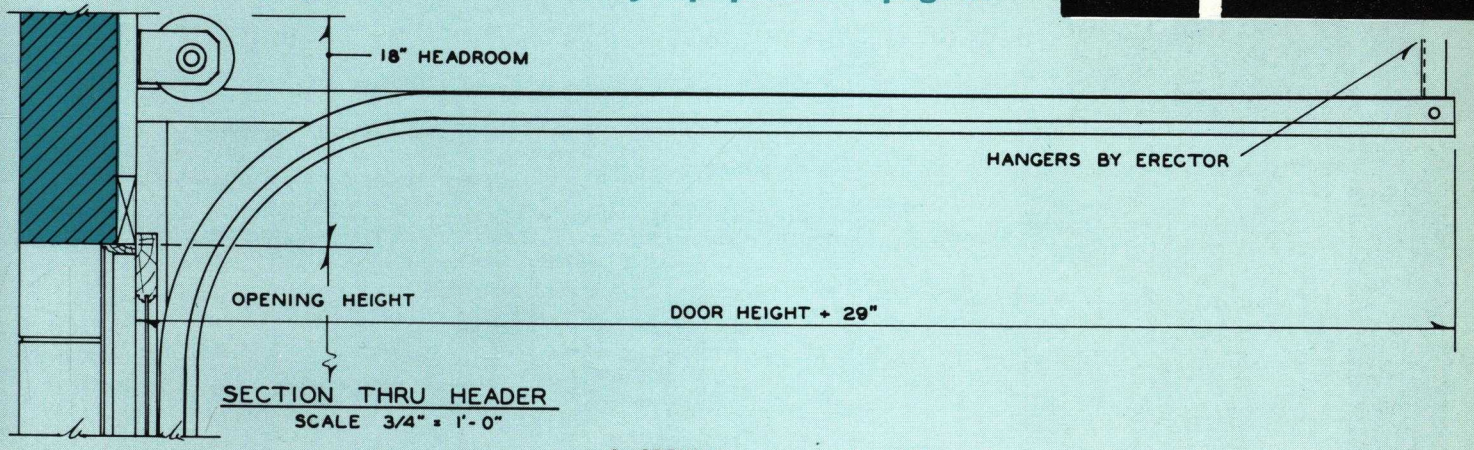
LARGE COMMERCIAL and INDUSTRIAL

500 sq. ft. max. model T18

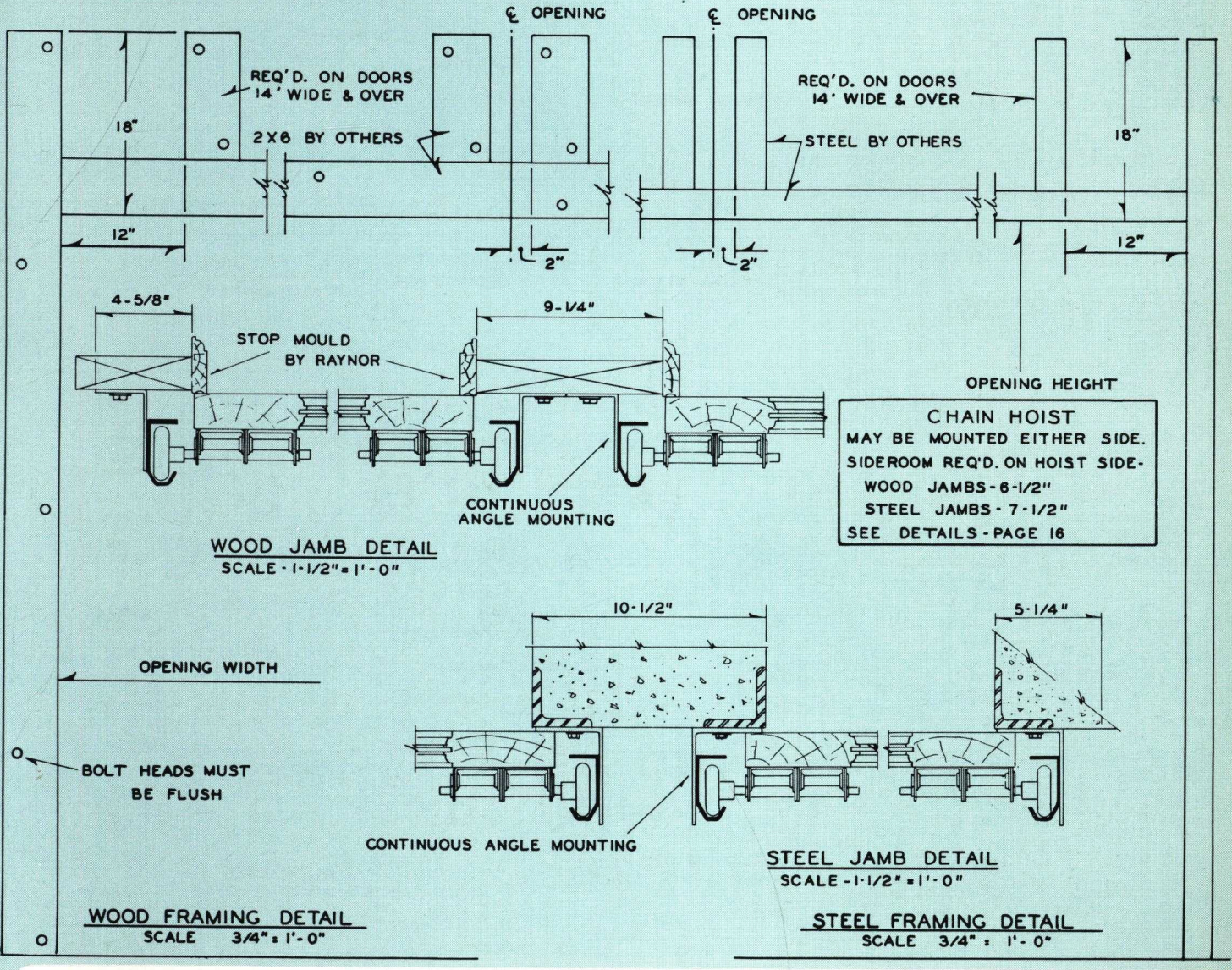
Not to exceed 32′–2″ wide Not to exceed 18′–1″ high

Door Details — pages 3, 4 & 5 Auxiliary Equipment — page 16

16i Ray NORMAL HEADROOM



SECTION THRU HEADER
SCALE 3/4" = 1'-0"



WOOD JAMB DETAIL
SCALE - 1-1/2" = 1'-0"

STEEL JAMB DETAIL
SCALE - 1-1/2" = 1'-0"

WOOD FRAMING DETAIL
SCALE 3/4" = 1'-0"

STEEL FRAMING DETAIL
SCALE 3/4" = 1'-0"

SPECIFICATIONS: Doors shall be Raynor Model T18, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 3″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted to steel or wood jambs with 3⅜″ x 5″ x ⅛″ angle. Horizontal track reinforced with 2½″ x 2″ x 3⁄16″ angle.

Doors shall be counterbalanced with heavy duty torsion springs on continuous ball bearing solid cross header shaft.

Doors shall be furnished with the necessary trusses, stiffeners, center track, etc., according to manufacturer's specifications.

Five pin tumbler cylinder lock.

Rollers shall be 3″ heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

Chain hoist or electric operation.

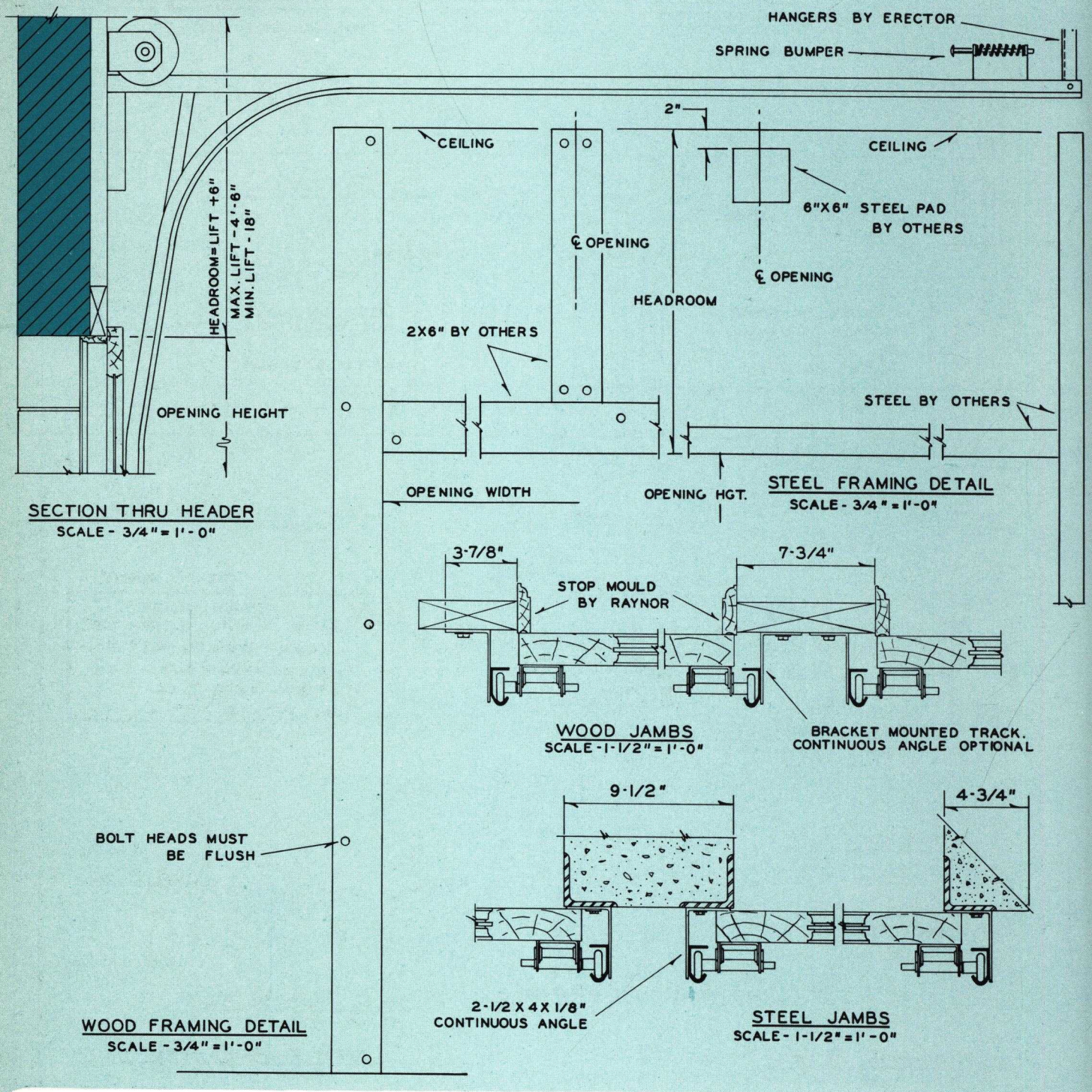
SMALL COMMERCIAL and INDUSTRIAL

128 sq. ft. max. model T24

Not to exceed 18′–2″ wide **Not to exceed 10′–7″ high**

Section Details — pages 3, 4 & 5 **Auxiliary Equipment — page 16**

LIFT CLEARANCE



SPECIFICATIONS: Doors shall be Raynor Model T24, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 2″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted with brackets or continuous angle to wood jambs, mounted with continuous angle to steel jambs. Continuous angle size 2½″ x 4″ x ⅛″. Horizontal track reinforced with 2″ x 2″ x ⅛″ angle.

Doors shall be counterbalanced with heavy duty torsion springs on continuous, ball bearing cross header shaft. Differential cable drums.

Five pin tumbler cylinder side lock, right or left side installation.

Rollers shall be heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

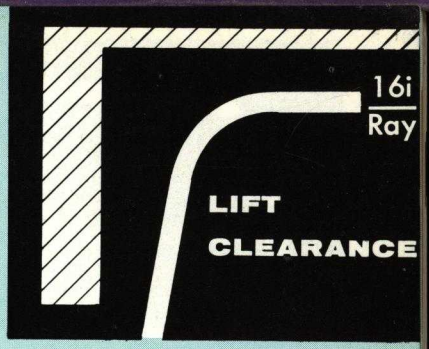
Manual or electric operation.

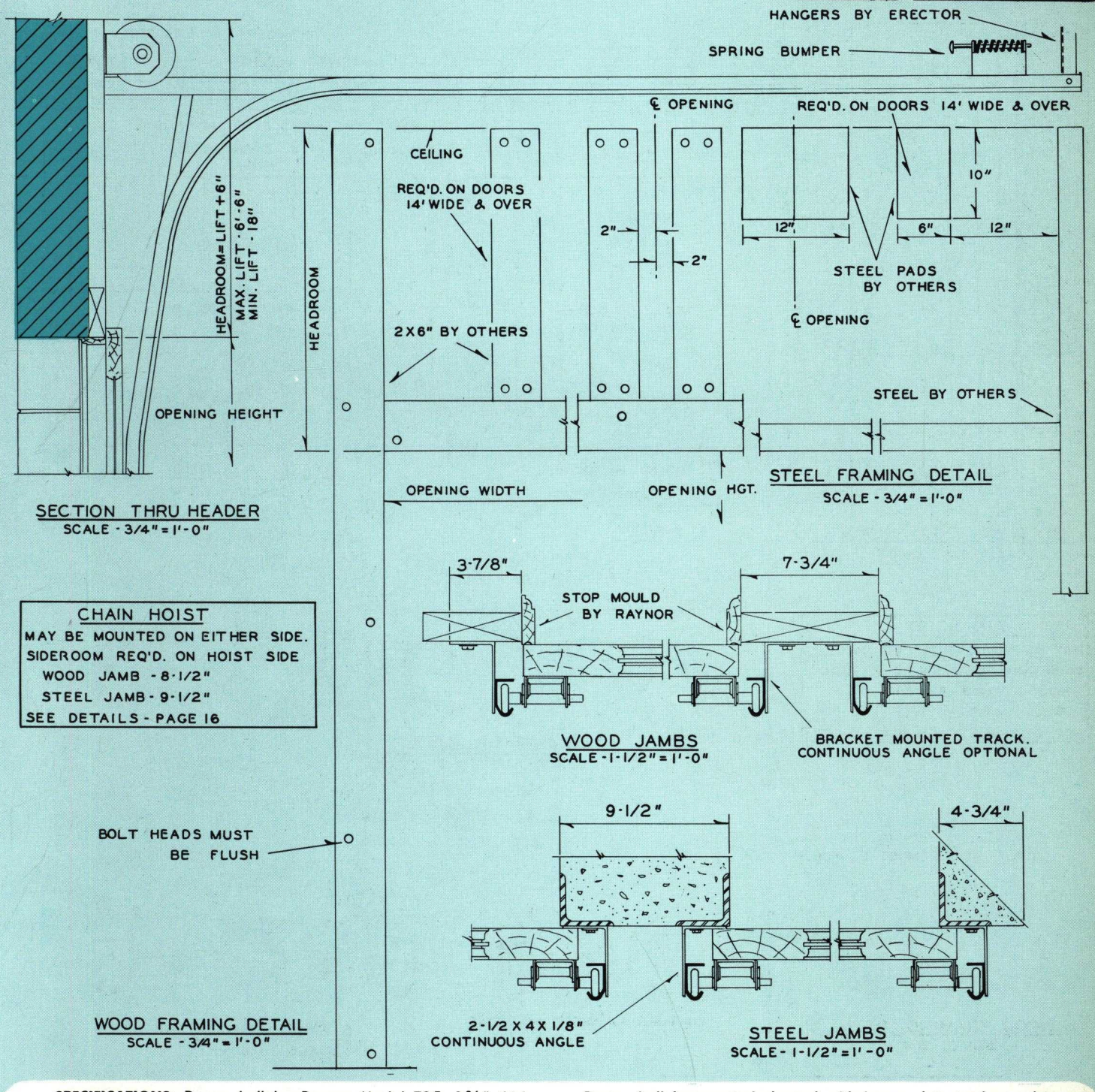
MEDIUM COMMERCIAL and INDUSTRIAL

240 sq. ft. max. model T 25

Not to exceed 20′–2″ wide **Not to exceed 16′–1″ high**

Door Details — pages 3, 4 & 5 **Auxiliary Equipment — page 16**





SPECIFICATIONS: Doors shall be Raynor Model T25, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 2″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted with brackets or continuous angle to wood jambs, mounted with continuous angle to steel jambs. Continuous angle size 2½″ x 4″ x ⅛″. Horizontal track reinforced with 2½″ x 2″ x 3⁄16″ angle.

Doors shall be counterbalanced with heavy duty torsion springs on continuous, ball bearing solid cross header shaft. Differential cable drums.

Five pin tumbler cylinder side lock, right or left side installation.

Rollers shall be heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

Manual, chain hoist or electric operation.

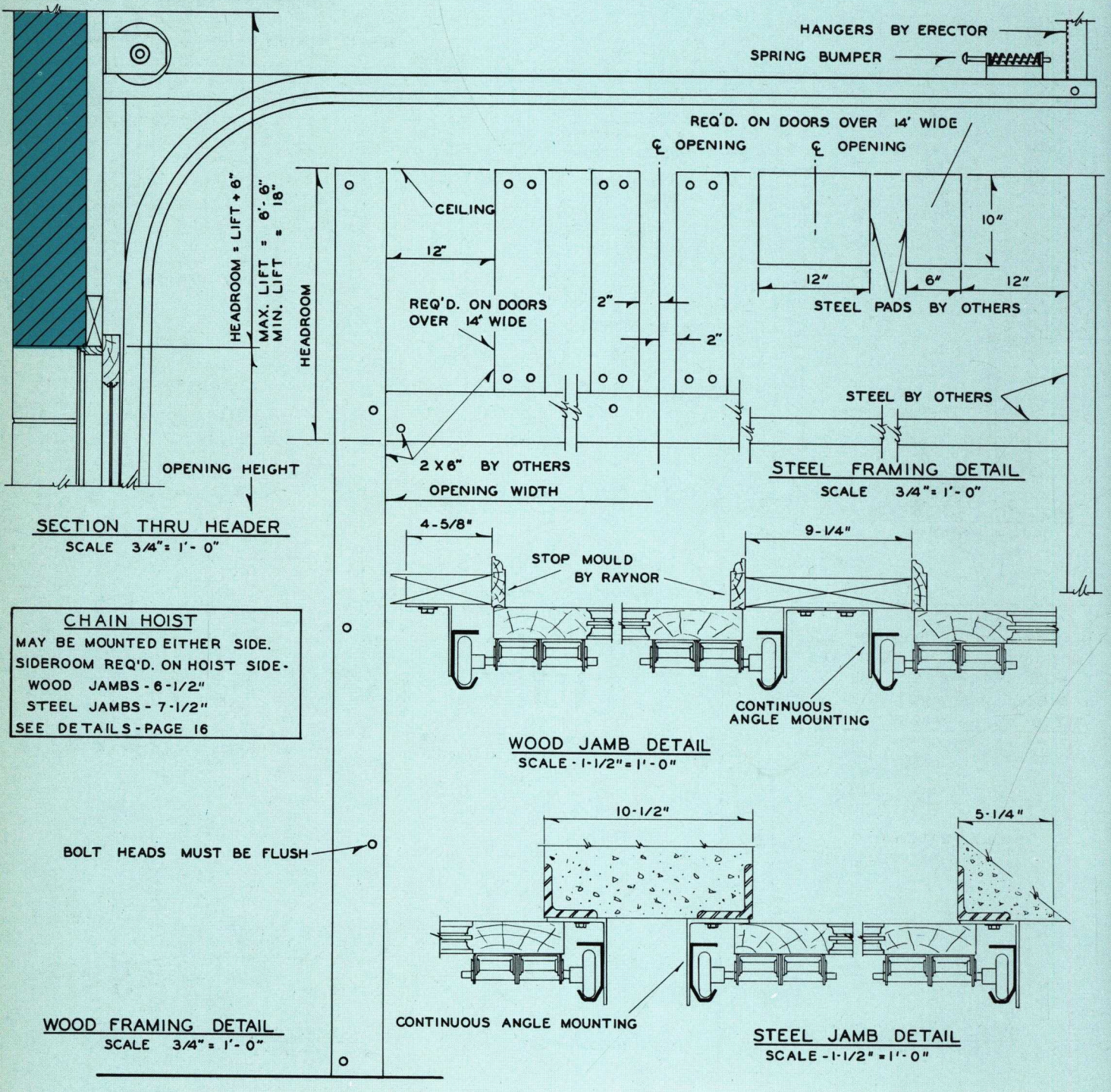
LARGE COMMERCIAL and INDUSTRIAL

325 sq. ft. max. model T 26

Not to exceed 32′-2″ wide **Not to exceed 18′ 1″ high**

Door Details — pages 3, 4 & 5 **Auxiliary Equipment — page 16**

LIFT CLEARANCE



CHAIN HOIST

MAY BE MOUNTED EITHER SIDE.
SIDEROOM REQ'D. ON HOIST SIDE-
WOOD JAMBS - 6-1/2"
STEEL JAMBS - 7-1/2"
SEE DETAILS - PAGE 16

SPECIFICATIONS: Doors shall be Raynor Model T26, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 3″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted to steel or wood jambs with 3⅜″ x 5″ x ⅛″ angle. Horizontal track reinforced with 2½″ x 2″ x 3⁄16″ angle.

Doors shall be furnished with the necessary trusses, stiffeners, center track, etc., according to manufacturer's specifications.

Doors shall be counterbalanced with heavy duty torsion springs on continuous ball bearing solid cross header shaft. Differential cable drums.

Rollers shall be 3″ heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

Chain hoist or electric operation.

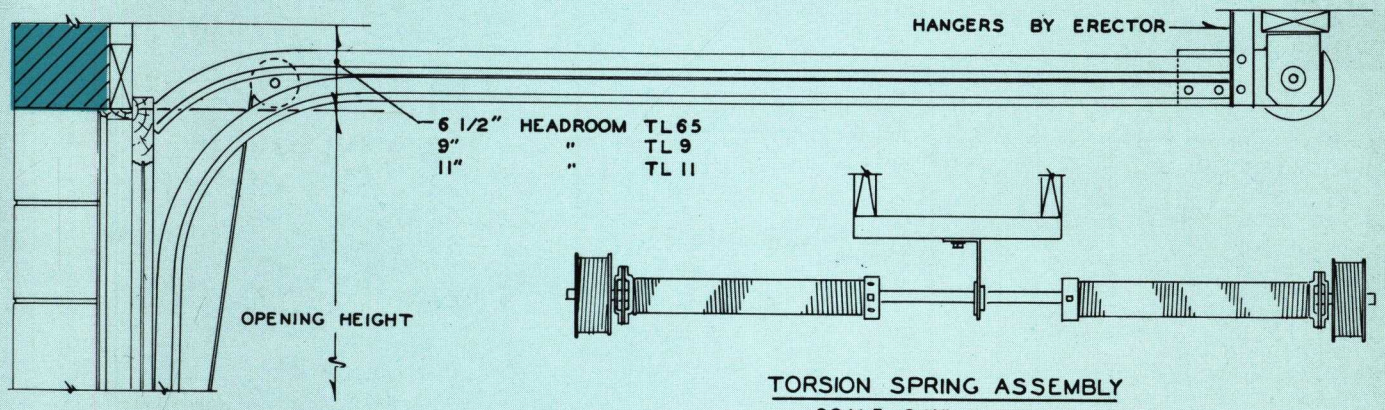
COMMERCIAL and INDUSTRIAL

144 sq. ft. max. — **model TL65**
Not to exceed 20′ 2″ wide — Not to exceed 12′-1″ high

200 sq. ft. max. — **model TL9**
Not to exceed 20′ 2″ wide — Not to exceed 14′-1″ high

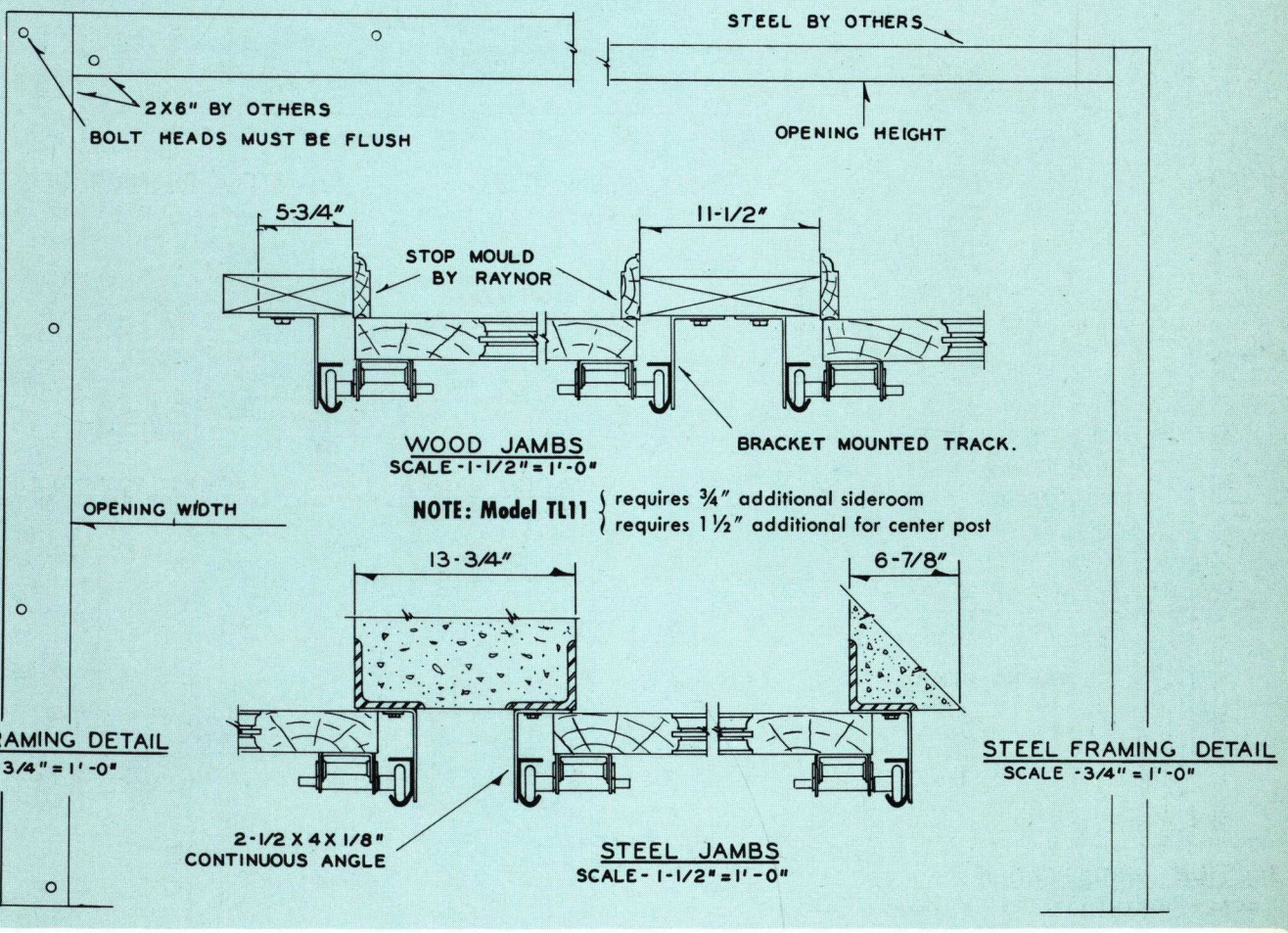
Door Details — pages 3, 4 & 5
Auxiliary Equipment — page 16

Also Available in 3″ Track — 280 Sq. Ft. Max. — MODEL TL11
Not to exceed 20′ 2″ wide — Not to exceed 14′-1″ high



SECTION THRU HEADER
SCALE - 3/4" = 1'-0"

TORSION SPRING ASSEMBLY
SCALE - 3/4" = 1'-0"



WOOD JAMBS
SCALE - 1-1/2" = 1'-0"

NOTE: Model TL11 { requires ¾″ additional sideroom
requires 1½″ additional for center post

WOOD FRAMING DETAIL
SCALE - 3/4" = 1'-0"

STEEL JAMBS
SCALE - 1-1/2" = 1'-0"

STEEL FRAMING DETAIL
SCALE - 3/4" = 1'-0"

SPECIFICATIONS: Doors shall be Raynor Model TL65 (2″ track) TL11 (3″ track) 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted with brackets or continuous angle to wood jambs, mounted with continuous angle to steel jambs.

Doors shall be counterbalanced with heavy duty torsion springs on continuous, ball bearing solid cross header shaft.

Five pin tumbler cylinder side lock, right or left side installation.

Rollers shall be heavy duty ball bearing type with hardened races.

Doors shall be guaranteed for one year against defective material or workmanship.

Manual or electric operation.

VERTICAL
LIFT

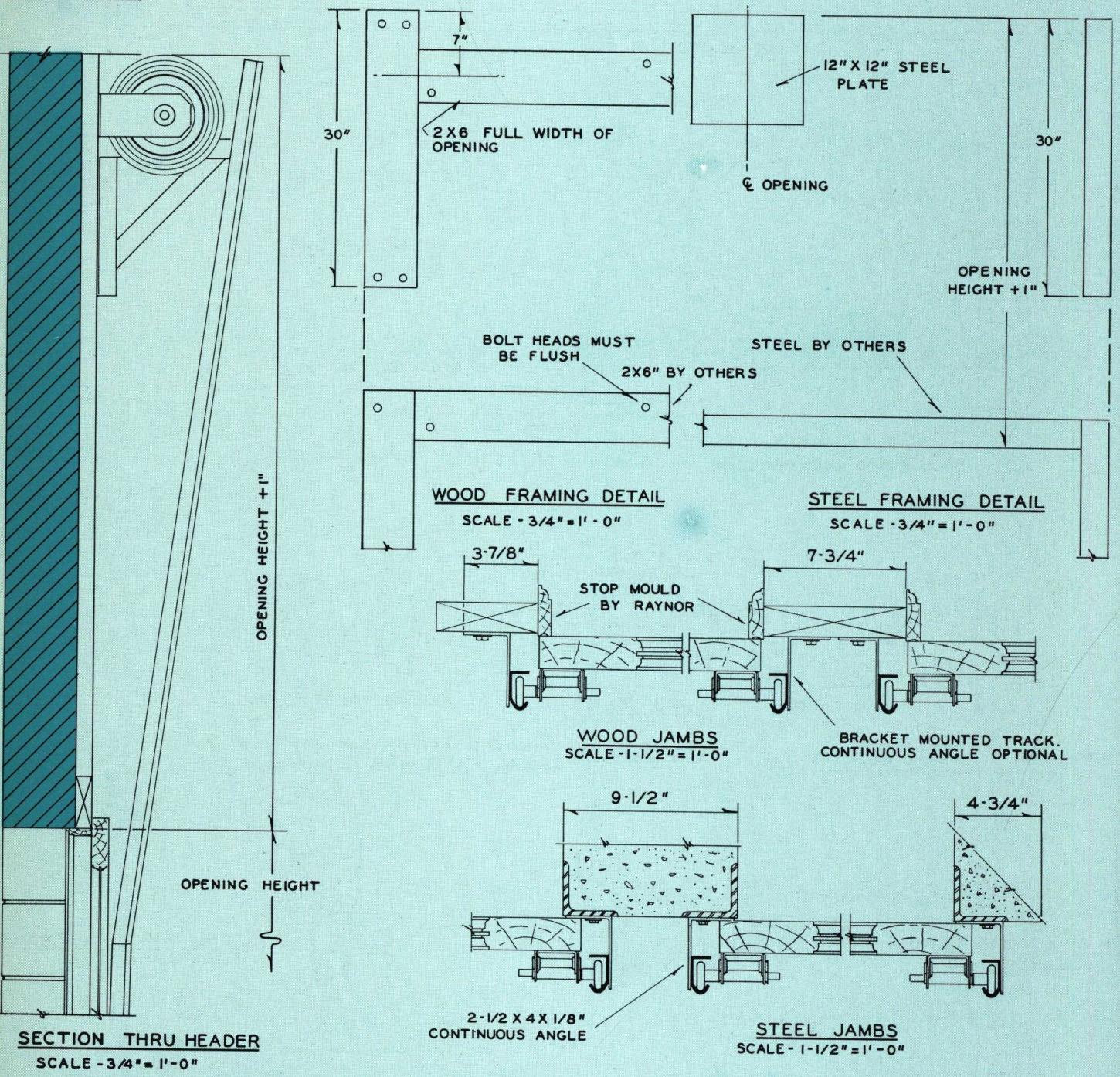
COMMERCIAL and INDUSTRIAL

168 sq. ft. max. model VL22

Not to exceed 20′–2″ wide **Not to exceed 14′–1″ high**

Weight Counterbalance Doors Available To 500 Sq. Ft.

Door Details — pages 3, 4 & 5 **Auxiliary Equipment — page 16**



SPECIFICATIONS: Doors shall be Raynor Model VL22, 1¾″ thick, clear Sitka spruce or Douglas fir. Panels shall be ¼″ Dorlux.

Heavy gauge 2″ galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track mounted with brackets or continuous angle to wood jambs, mounted with continuous angle to steel jambs. Continuous angle size 2½″ x 4″ x ⅛″.

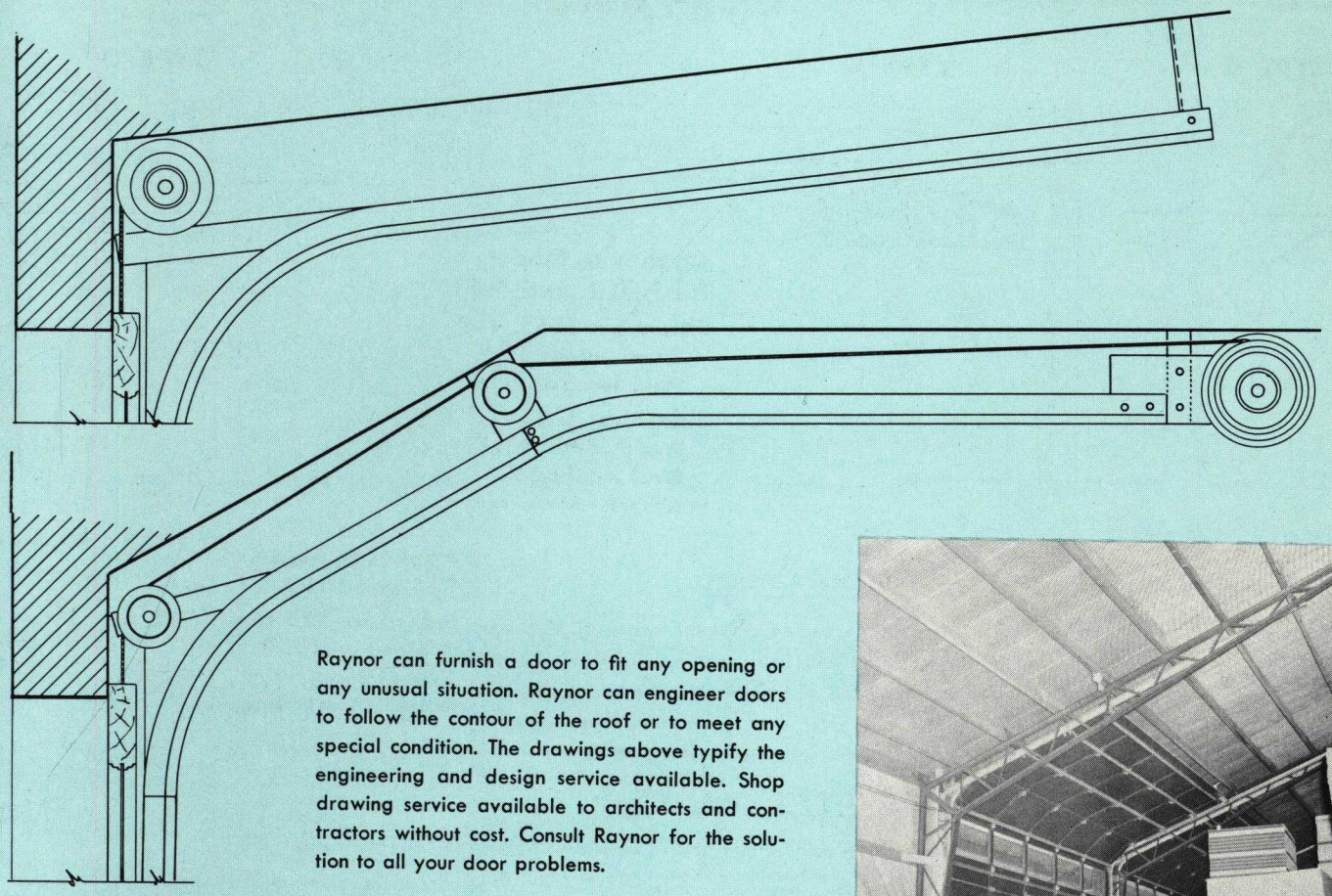
Doors shall be counterbalanced with heavy duty torsion springs on continuous ball bearing solid cross header shaft. Differential cable drums.

Five pin tumbler cylinder side lock, right or left side installation. Rollers shall be heavy duty ball bearing type with hardened races.

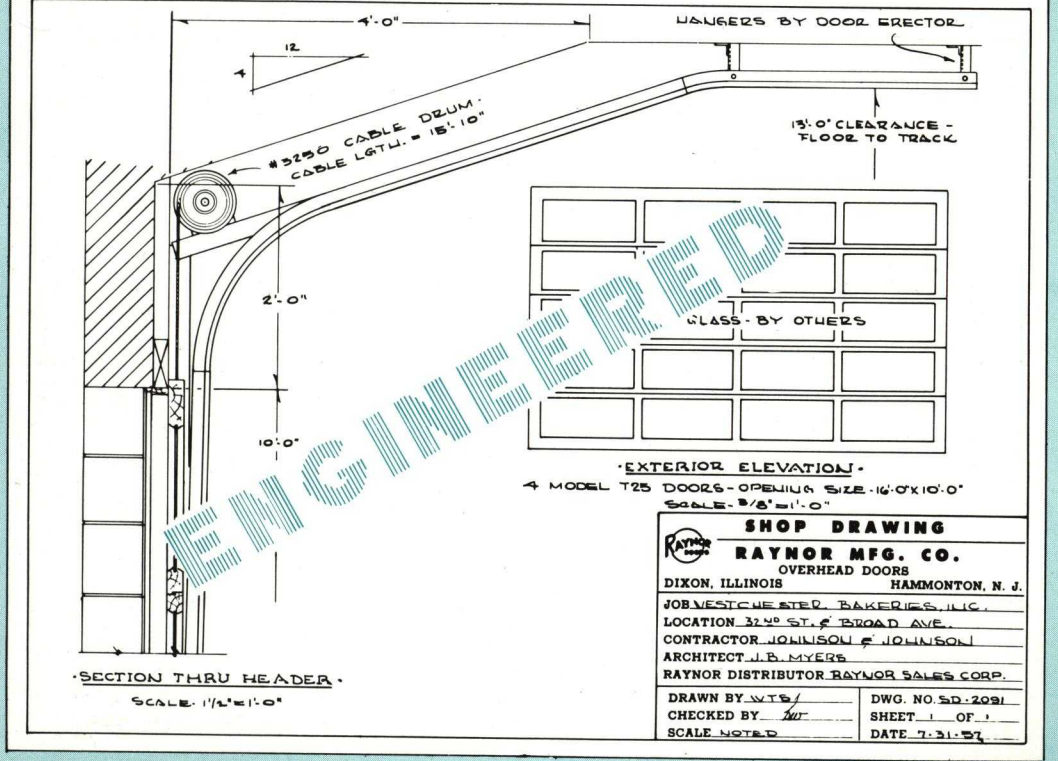
Doors shall be guaranteed for one year against defective material or workmanship.

Manual, chain hoist or electric operation.

SPECIAL APPLICATIONS



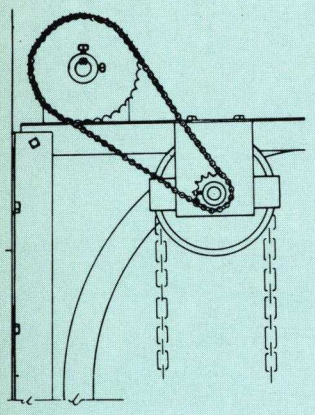
Raynor can furnish a door to fit any opening or any unusual situation. Raynor can engineer doors to follow the contour of the roof or to meet any special condition. The drawings above typify the engineering and design service available. Shop drawing service available to architects and contractors without cost. Consult Raynor for the solution to all your door problems.



COMMERCIAL AND INDUSTRIAL AUXILIARY EQUIPMENT

Chain Hoist

TYPE C



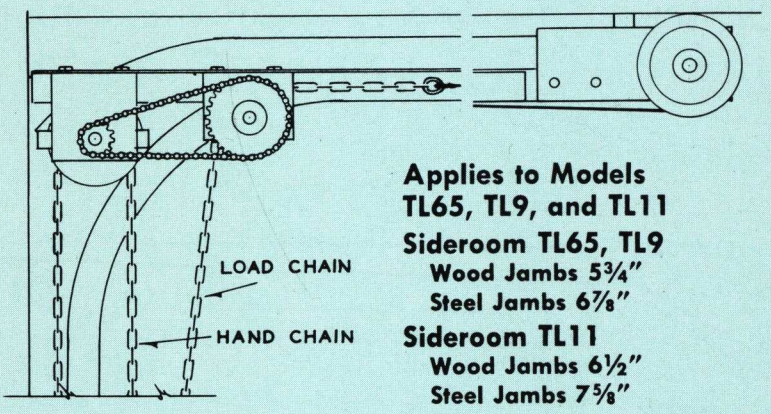
Applies to Models T16, T18, and T26

Sideroom T16
Wood Jamb 5¾"
Steel Jamb 6¾"

Sideroom T18 and T26
Wood Jamb 6½"
Steel Jamb 7½"

No additional headroom required.

TYPE L



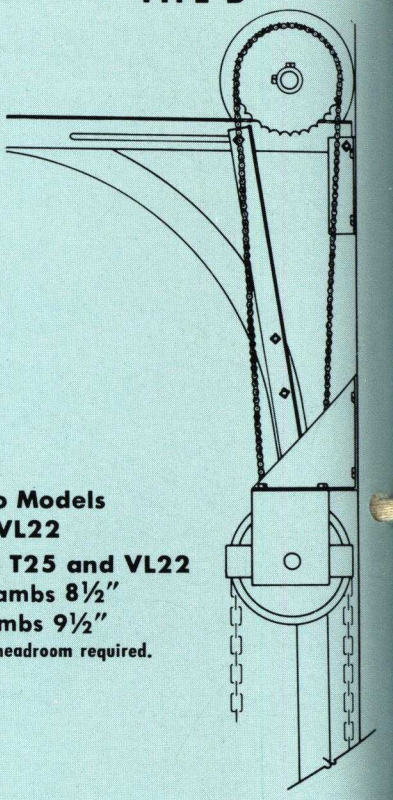
Applies to Models TL65, TL9, and TL11

Sideroom TL65, TL9
Wood Jambs 5¾"
Steel Jambs 6⅞"

Sideroom TL11
Wood Jambs 6½"
Steel Jambs 7⅝"

No additional headroom required.

TYPE D



Applies to Models T25 and VL22

Sideroom T25 and VL22
Wood Jambs 8½"
Steel Jambs 9½"

No additional headroom required.

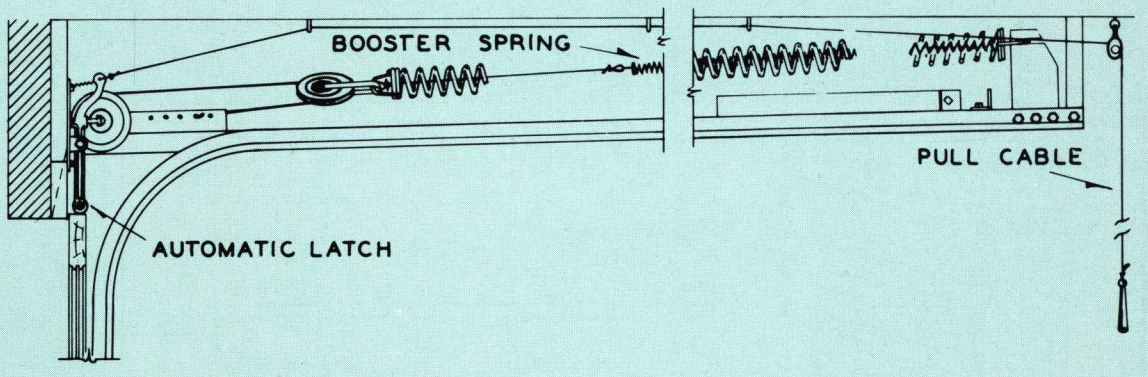
CHAIN HOIST

Chain hoists are recommended on doors over 13′ high or over 168 square feet. All hoists are equipped with ball bearing hand wheel and zinc plated hand chain. Reduction ratio is 3 to 1. Doors over 400 square feet supplied with Type C5 chain hoist with reduction ratio of 5 to 1.

QUICK RELEASE MECHANISM

Used in conjunction with trolley type electric operators, permitting easy switch to chain hoist operation in the event of power failure. See page 21 for details.

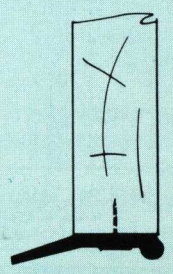
Automatic Door Opener



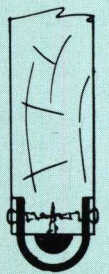
Recommended for use in fire stations or other installations where quick manual opening is desired. The door is released from a pull handle located conveniently at the rear of a fire truck or any other location. An inner spring within the main spring gives the door a quick start upward and cuts out about three feet from the floor. A friction brake at the rear of the horizontal track stops the upward motion of the door. The door must be pulled down manually and locks automatically when it reaches the floor. Recommended for use with extension spring counterbalance. Maximum door size 144 Sq. Ft.

Astragal

Rubber astragal is designed to conform to any slight uneveness in floor, forming a Weather-tite seal against rain and snow. Astragal also cushions the closing of the door. Raynor furnishes two types, as illustrated, and recommends the use of astragal on all doors.

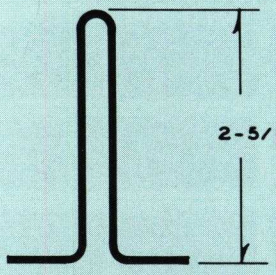


DOUBLE CONTACT



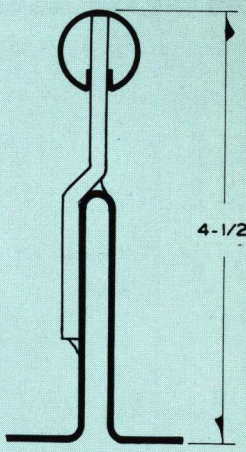
SINGLE CONTACT

COMMERCIAL and INDUSTRIAL
DOOR REINFORCING DETAILS

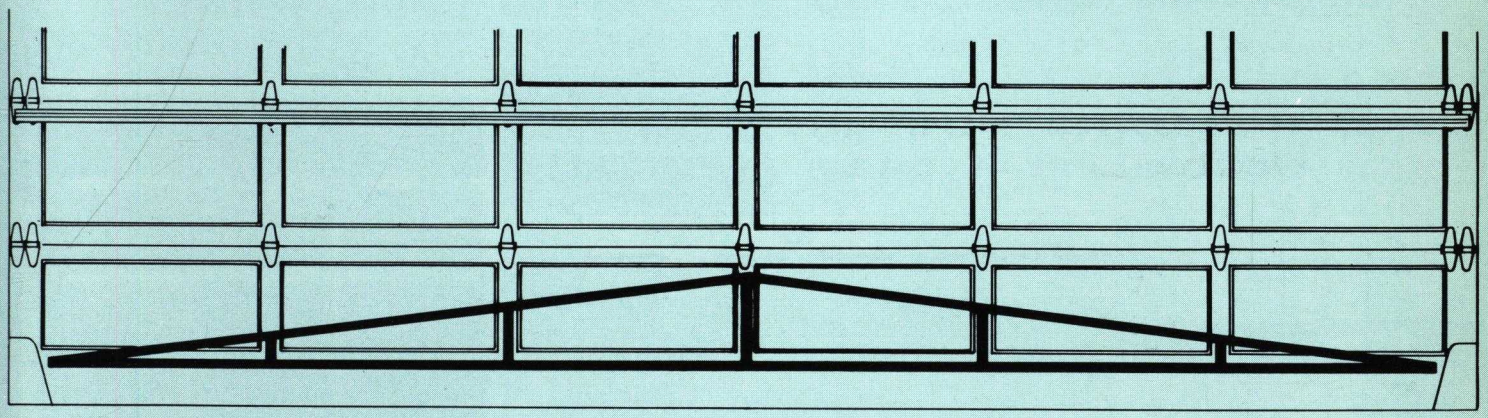


U-BAR STIFFENER

U-bar stiffeners are formed of 16 gauge galvanized steel, 2⅝" high for maximum rigidity. U-bar stiffeners are furnished on each section of doors over 12'-6" wide. Doors 20'-3" wide and wider are reinforced with a 4½" deep rigid truss on each section.

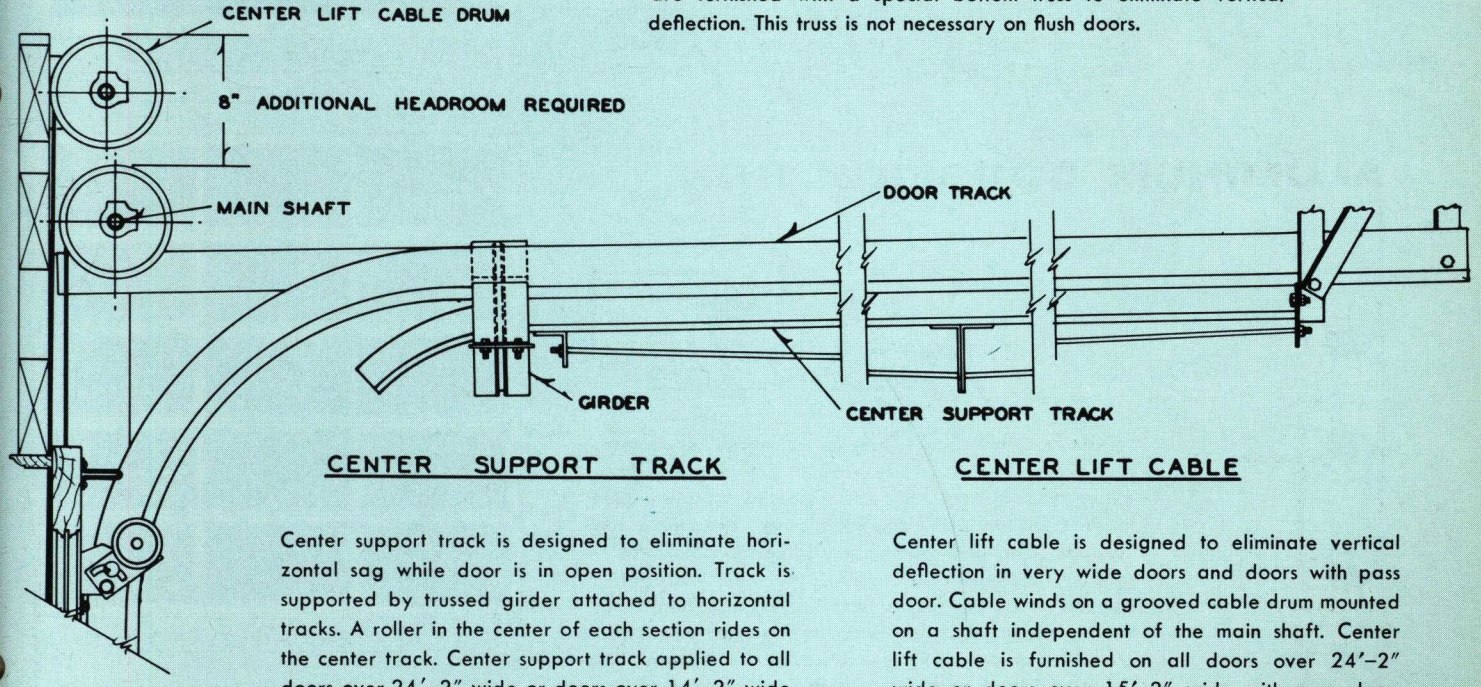


RIGID TRUSS



RIGID BOTTOM TRUSS

Raynor Commercial and Industrial doors 17'-6" to 24'-2" wide are furnished with a special bottom truss to eliminate vertical deflection. This truss is not necessary on flush doors.



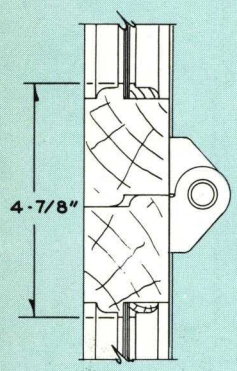
CENTER SUPPORT TRACK

Center support track is designed to eliminate horizontal sag while door is in open position. Track is supported by trussed girder attached to horizontal tracks. A roller in the center of each section rides on the center track. Center support track applied to all doors over 24'–2" wide or doors over 14'–2" wide with pass door and steel bottom rail. Requires no additional sideroom or headroom. Doors over 24' - 2" require 3" additional headroom.

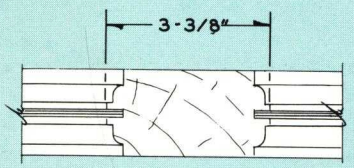
CENTER LIFT CABLE

Center lift cable is designed to eliminate vertical deflection in very wide doors and doors with pass door. Cable winds on a grooved cable drum mounted on a shaft independent of the main shaft. Center lift cable is furnished on all doors over 24'–2" wide or doors over 15'–2" wide with pass door. Requires 8" additional headroom.

WOOD CONSTRUCTION
Regular—Type 2

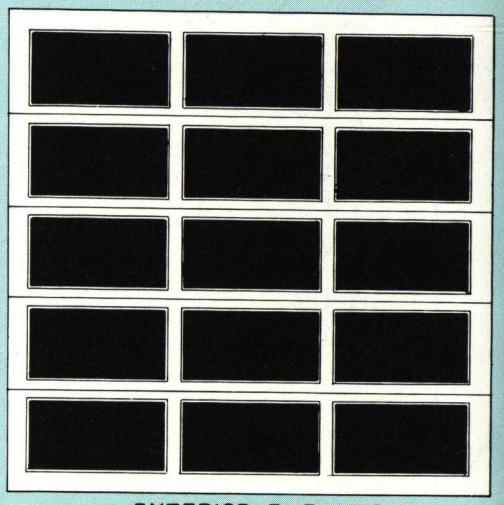


MEETING RAIL



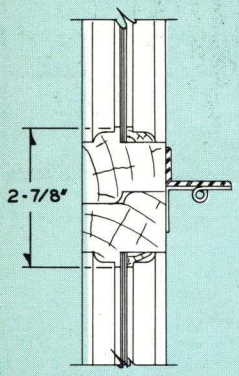
MUNTIN

Regular Construction, Type 2 — Stiles and rails are of the finest quality kiln dried Sitka Spruce or Douglas Fir, 1¾" thick. Section joints are mortised and tenoned, steel dowelled and waterproof glued. All sections sanded ready for paint. Stop moulding ¾" x 2⅝" and glass moulding furnished as standard equipment. If flush bottom section is required, see page 19. Specify type "A" or type "B" hardware.

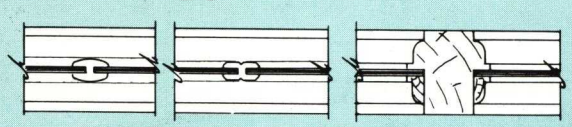


EXTERIOR ELEVATION

WOOD CONSTRUCTION
Narrow Line—Type 1



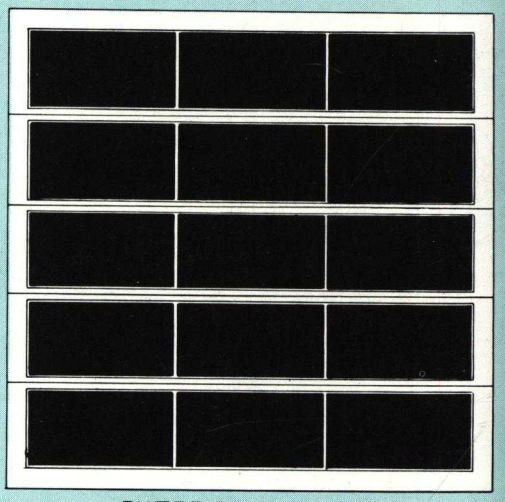
MEETING RAIL



TYPES OF MUNTINS

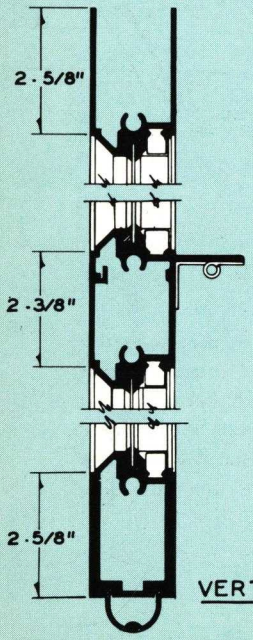
PLASTIC ALUMINUM 1" WOOD

Narrow Line Construction, Type 1 — Stiles and rails are of the finest quality kiln dried Sitka Spruce or Douglas Fir, 1¾" thick. Section joints are mortised and tenoned, steel dowelled and waterproof glued. All sections sanded, ready for paint. Stop moulding ¾" x 2⅝" and glass moulding furnished as standard equipment. Specify type of muntin required. If flush bottom section is required, see page 19. Specify type "A" or type "B" hardware.

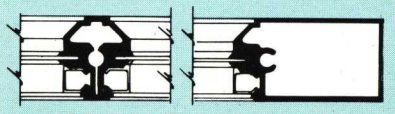


EXTERIOR ELEVATION

ALUMINUM CONSTRUCTION

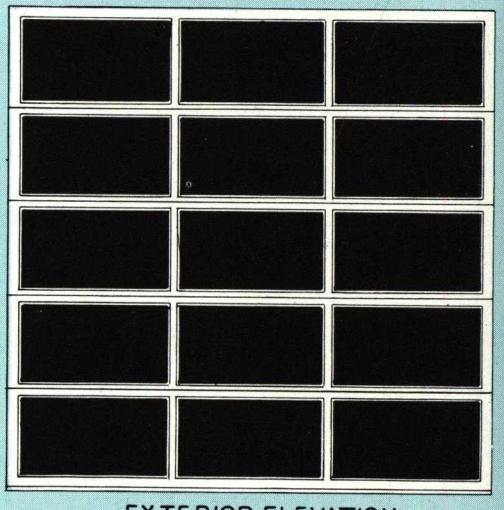


VERTICAL SECTION



HORIZONTAL SECTION

Aluminum Construction — Raynor aluminum service station doors are made of 6063T6 extruded aluminum alloy, heat treated. All parts anodized for permanent luster. Glass and .062 aluminum panels are encased in vinyl moulding and are securely locked in place with a snap-in aluminum bead. Adjustable vinyl astragal is applied to bottom rail of door. 1⅜" high reinforcing web is a part of the weathertite meeting rails. Fixed sections, transom sections and pass doors can be furnished, made of extruded aluminum to match overhead type door. Use "A" type hardware only.



EXTERIOR ELEVATION

DOOR DETAILS

HARDWARE TYPE A
Interior Lock

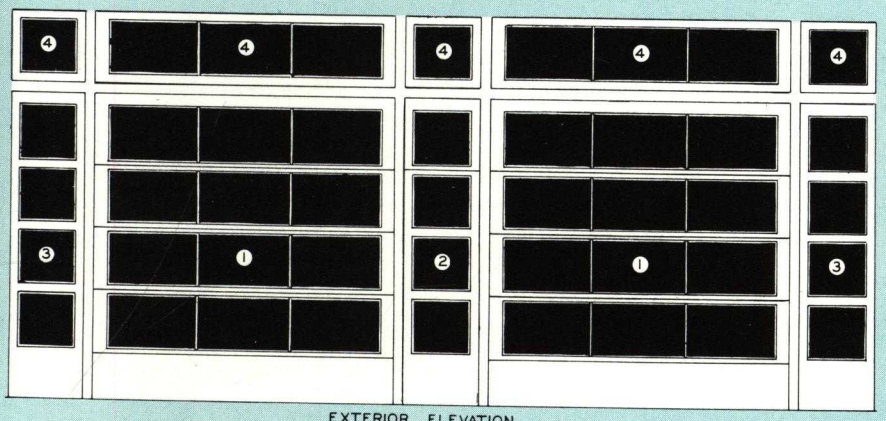
Interior Lock — Raynor type "A" service station door hardware is designed for use where no exterior lock is required. Interior type end stile lock may be mounted either side. Lock bar engages slot in track, with hole for padlock if required.

HARDWARE TYPE B
Exterior Lock

Exterior Lock — Raynor type "B" service station door hardware is designed for use where exterior locking is required. End stile lock with 5-pin tumbler brass cylinder may be mounted on either side. Lock bar engages slot in track.

Raynor Service Station Hardware Features

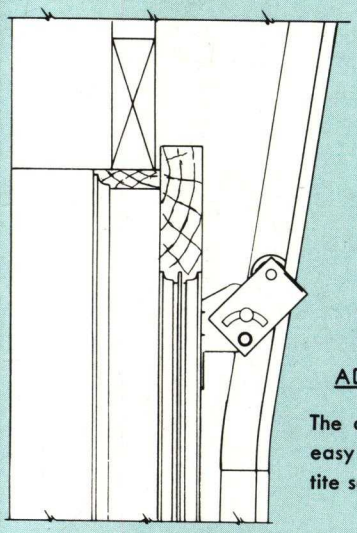
Vertical tracks — 2". 13 gauge galvanized steel with "GRADUATED SEAL" mounted to 10 gauge brackets or 2½" x 4" x ⅛" continuous angle.
Horizontal tracks — reinforced with 2" x 2" x ⅛" or 1½" x 1½" x ⅛" angle.
Counterbalance — heavy duty torsion springs on a continuous, ball-bearing gross header shaft. Lifting cables are 5/32" diameter preformed galvanized, combined breaking strength 4400 lbs.
Small Hardware — all hinges and other small hardware are fabricated from heavy gauge galvanized steel. All nuts, bolts, etc., are zinc plated.



EXTERIOR ELEVATION

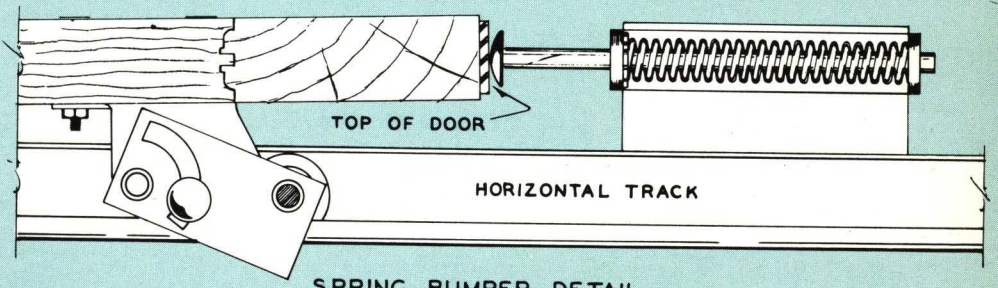
COMPLETE STATION FRONTS

Raynor furnishes complete service station fronts to meet specifications. Typical installation at left shows (1) overhead doors, (2) pass or access door with fixed transom above, (3) fixed panel and (4) transom sections. A pass door within the overhead door is also available as required.



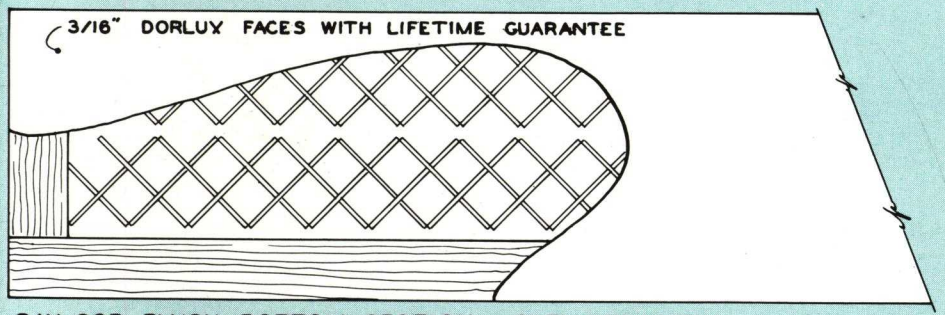
ADJUSTABLE TOP FIXTURE

The adjustable top fixture provides an easy method of maintaining a Weather-tite seal.



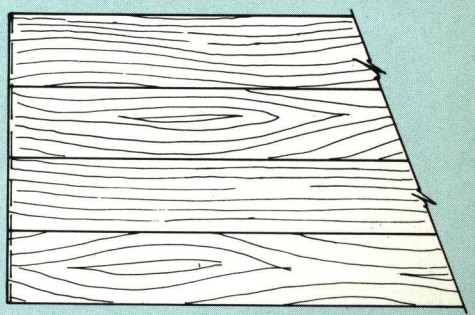
SPRING BUMPER DETAIL

Raynor compression type spring bumpers smoothly retard the upward motion of the door. They are furnished as standard equipment on all lift clearance doors.



RAY-COR FLUSH BOTTOM SECTION - CUT AWAY VIEW

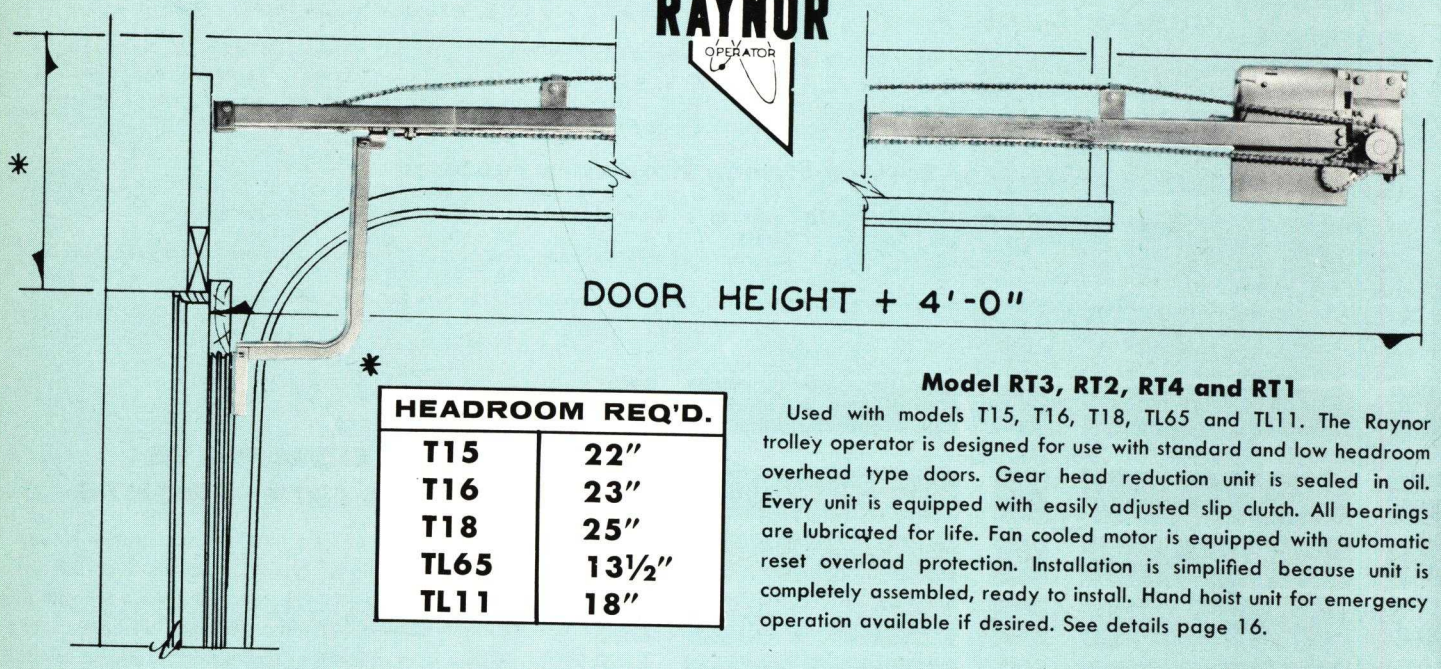
Service station flush bottom sections are made with the exclusive "Ray-Cor" design. Face material may be either Dorlux with lifetime guarantee, or ¼" exterior grade fir plywood. Face material is bonded to frame with waterproof glue under heat and pressure.



PLANK BOTTOM SECTION

Service station plank bottom sections are made of Sitka Spruce, 1¾" thick, edge glued and reinforced at each end with metal bars to prevent warping.

ELECTRIC
COMMERCIAL



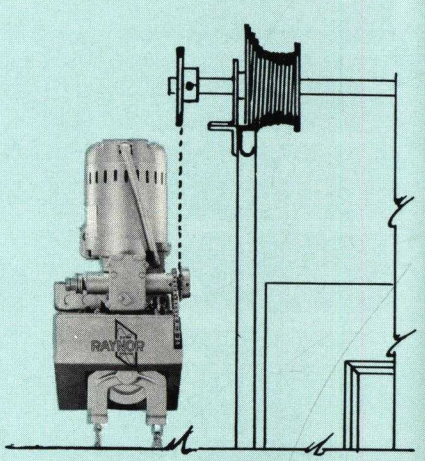
HEADROOM REQ'D.	
T15	22"
T16	23"
T18	25"
TL65	13½"
TL11	18"

Model RT3, RT2, RT4 and RT1

Used with models T15, T16, T18, TL65 and TL11. The Raynor trolley operator is designed for use with standard and low headroom overhead type doors. Gear head reduction unit is sealed in oil. Every unit is equipped with easily adjusted slip clutch. All bearings are lubricated for life. Fan cooled motor is equipped with automatic reset overload protection. Installation is simplified because unit is completely assembled, ready to install. Hand hoist unit for emergency operation available if desired. See details page 16.

Model RJH3, RJH2, RJH4, and RJH1

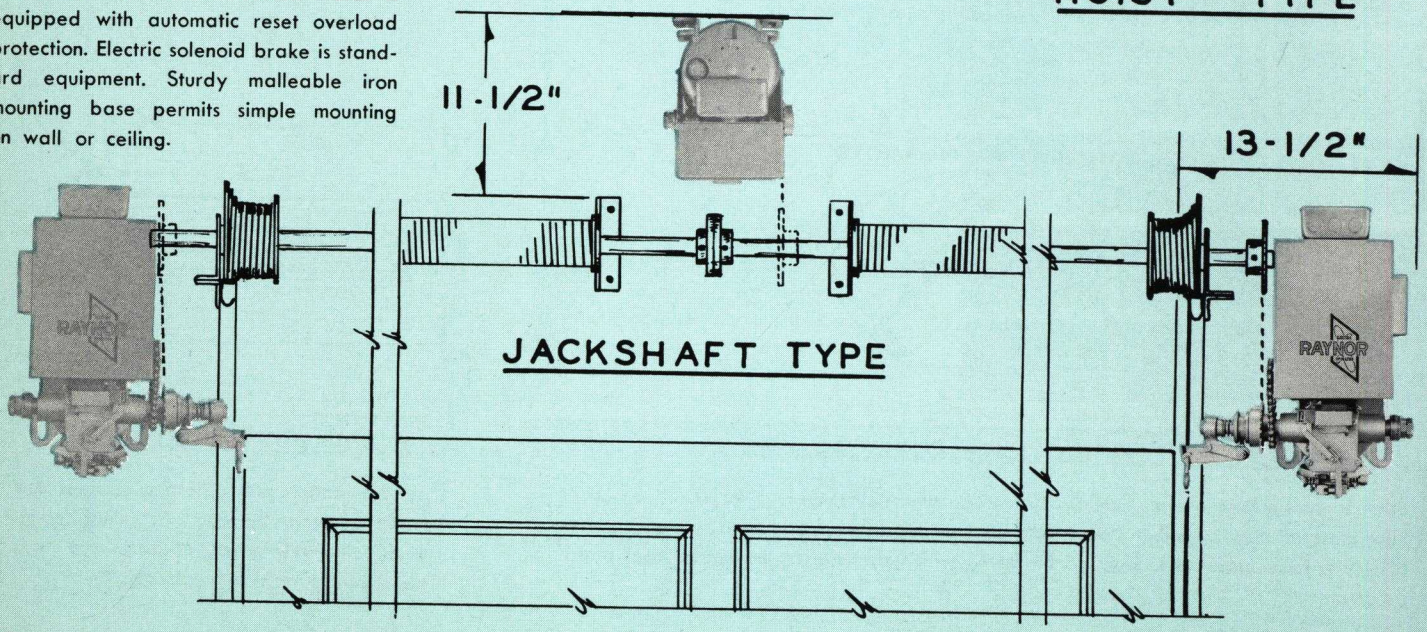
Used with models T24, T25, T26, VL22 and WVL12. The Raynor hoist type operator is used with hy-lift or vertical lift doors where emergency hand hoist operation is desired. Unit is same as jackshaft type except for built-in hand hoist. Electric power is automatically shut off when hand hoist is engaged.



HOIST TYPE

Model RJ3, RJ2, RJ4 and RJ1

Used with models T24, T25, T26, VL22 and WVL12. The Raynor jackshaft type operator is designed for use with hy-lift or vertical lift doors. Gearhead reduction unit is sealed in oil. Every unit is equipped with easily adjusted slip clutch. All bearings are lubricated for life. Fan cooled motor is equipped with automatic reset overload protection. Electric solenoid brake is standard equipment. Sturdy malleable iron mounting base permits simple mounting on wall or ceiling.



JACKSHAFT TYPE

OPERATOR
and INDUSTRIAL

TYPES OF CONTROLS

***RA** Momentary contact (single button) STARTS on first press of button, STOPS on second press if door is moving, REVERSES on third press.

***RAD** Constant pressure (single button) REVERSES direction every time button is pushed, but button must be held in to keep running.

RB Momentary contact (three button) OPEN, CLOSE, STOP.

RC Momentary contact (three button) on OPEN and STOP, constant pressure on CLOSE.

RD Constant pressure (two button) both OPEN and CLOSE.

RE Momentary contact (two button) on OPEN, constant pressure on CLOSE, release of "close" button before full closing automatically reverses door to open position.

RR Momentary contact (single button) Instantly reversible, reverses direction every time button is pushed even if in motion.

***Control types RA & RAD are available only on RT3 operators, 110 volts single phase.**

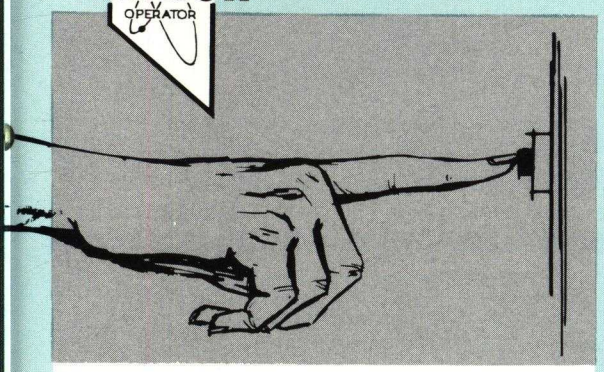
MAX. DOOR SIZE	OPERATOR MODEL	USED ON DOOR MODELS	VOLTAGE & PHASE	H.P.
200 SQ. FT.	RT3	T15 T16 TL65 TL11	110V-S 220V-S 220V-3 440V-3 550V-3	1/3
	RJ3 RJH3	T24 T25 VL22		
300 SQ. FT.	RT2	T16 T18 TL11	110V-S 220V-S 220V-3 440V-3 550V-3	1/2
	RJ2 RJH2	T25 T26 WVL12		
400 SQ. FT.	RT4	T18	220V-S 220V-3 440V-3 550V-3	3/4
	RJ4 RJH4	T26 WVL12		
500 SQ. FT.	RT1	T18	220V-3 440V-3 550V-3	1
	RJ1 RJH1	WVL12		

Specify operator model, voltage and phase, type of control and door height.

Electronic DOOR OPERATORS

FOR RESIDENTIAL USE

ELECTRIC RAYNOR OPERATOR

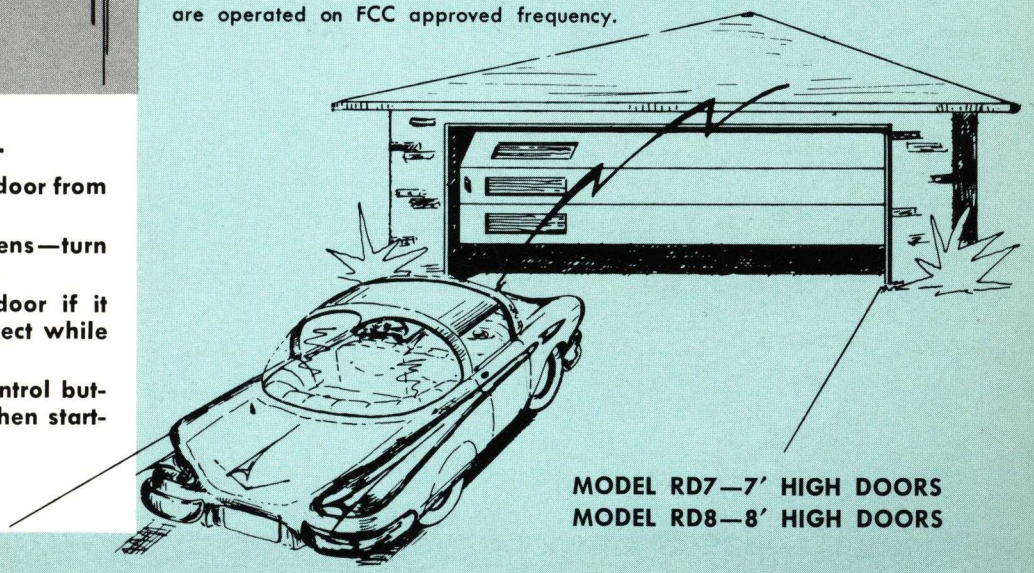


Raynor electric operators are equipped with enclosed gear head motors. Upper and lower limits of travel are positively controlled. Closing of door is cushioned by hydraulic cylinder and compression springs. Unit is furnished with button for control from inside garage and may be supplied with or without radio control.

Radio control may be supplied with tube type car transmitter or transistor hand unit. Both are operated on FCC approved frequency.

AUTOMATICALLY . . .

- V Open and close your Raynor door from inside your car.
- V Turn light on when door opens—turn light off when door is closed.
- V Stop and instantly reverse door if it comes in contact with an object while closing.
- V Stop in any position from control button—will reverse direction when started again.
- V Locks garage door closed.



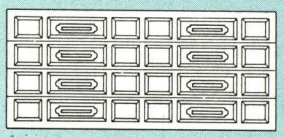
MODEL RD7—7′ HIGH DOORS
MODEL RD8—8′ HIGH DOORS

Presidential Line CARVED PANEL

Carved Panel Door construction is unique in that it allows the home owner to actually design his own garage door, yet receive the benefits of production line factory costs.

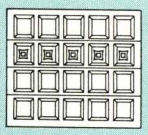
The Presidential names apply to the standard panel arrangements as illustrated below. The carved panel "Washington" design, for example, is contrived by using square panels keyed "N" and "Z." Carved designs can be selected and placed in any pattern to form your own original design.

15′ & 16′ wide



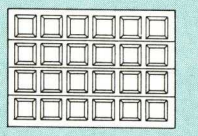
Fillmore

8′ wide

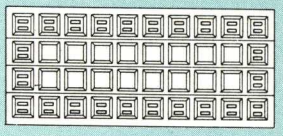


Washington

9′ & 10′ wide

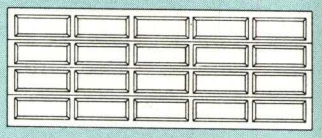


Adams

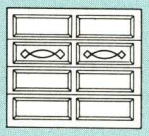


Jefferson

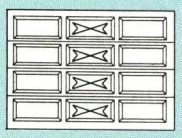
17′ & 18′ wide



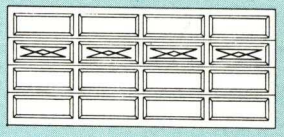
Pierce



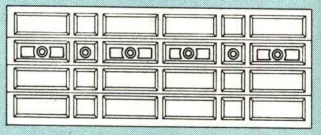
Madison



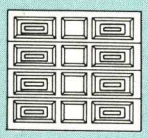
Monroe



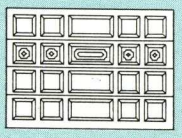
Jackson



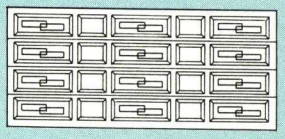
Buchanan



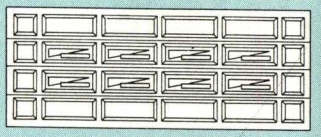
Van Buren



Harrison

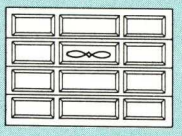


Tyler

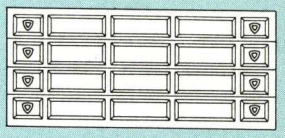


Lincoln

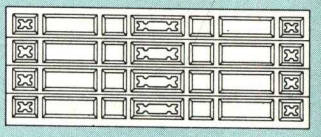
Polk



Polk

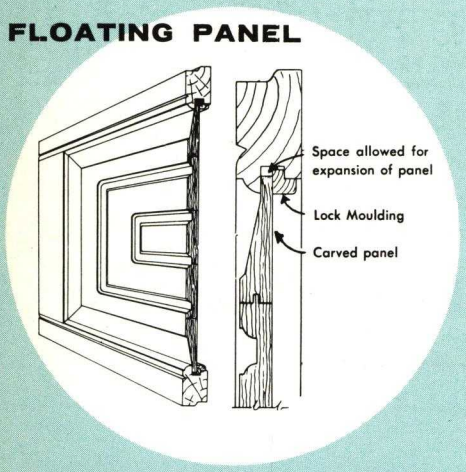


Taylor

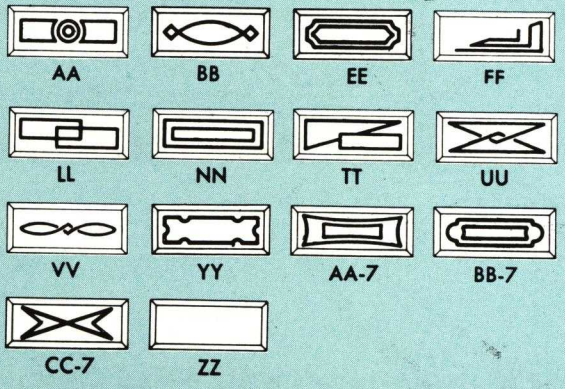


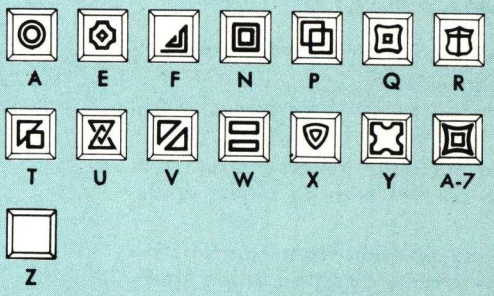
Grant

FLOATING PANEL



An exclusive feature . . . allows the panels to expand or contract due to varying moisture conditions without separating or distorting the stiles and rails. Each panel is held from in or out movement by the lock moulding.



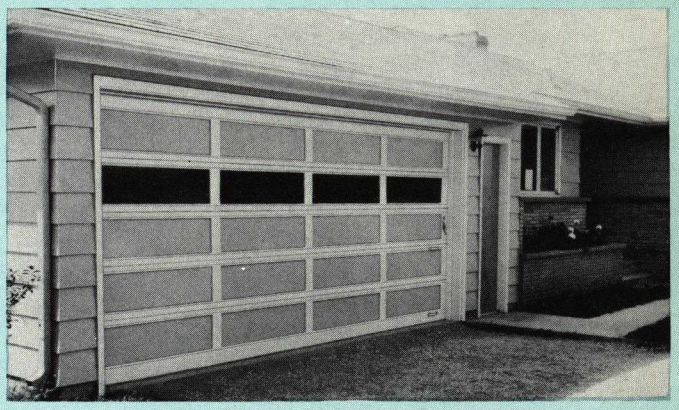


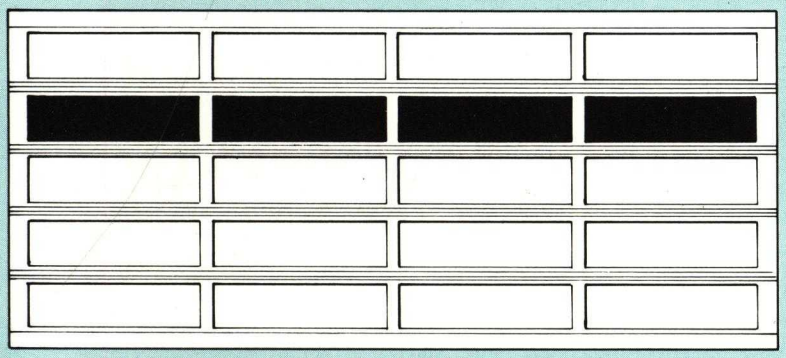
RAYNOR - originator of the carved panel door

RANCH DOORS

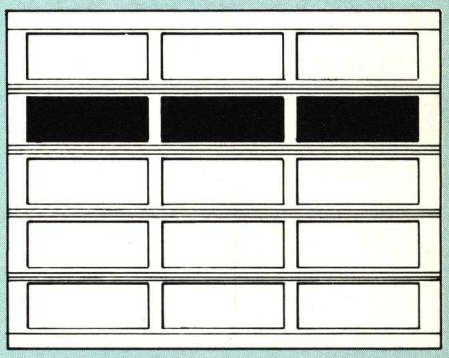
The horizontal sweep of the handsome ranch style door is ideally suited for the long lines of modern homes. Built rugged for long, hard use, yet designed to provide easy, gentle operation in all kinds of weather.

All quality construction — stiles and rails are 1⅜" or 1¾" Douglas Fir, Sitka Spruce or equal. Panels are of ¼" Ray-Lux with a lifetime guarantee or ¼" exterior 3-ply Fir plywood. All joints are blind-mortised and tenoned, steel dowelled and waterproof glued. Doors sanded both sides, ready to paint. Stop moulding and glass moulding furnished.

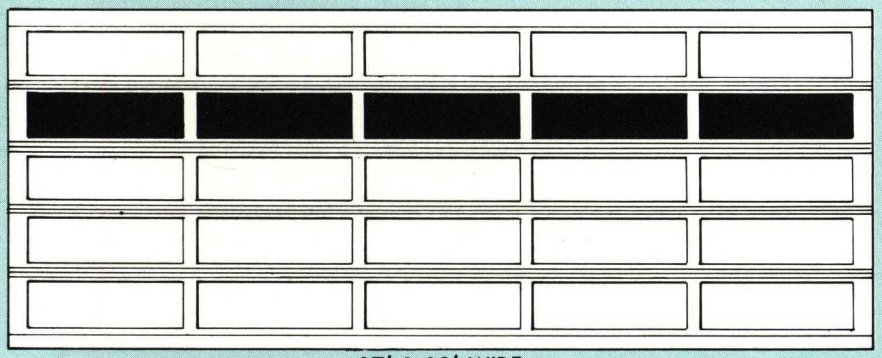




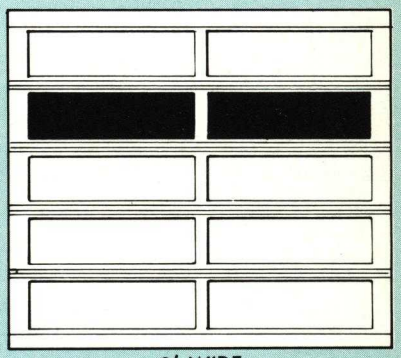
14', 15' & 16' WIDE



9' & 10' WIDE



17' & 18' WIDE



8' WIDE

Ray-Lux Lifetime Guarantee

The Raynor Manufacturing Company selected these door panels to give you the best in quality, beauty and service. These panels are guaranteed not to split, splinter, delaminate, or crack due to any natural conditions of weathering or exposure. If any Ray-Lux panels fail in this way, notify The Raynor Manufacturing Company giving conditions of failure. After verification of failure The Raynor Manufacturing Company will furnish a new door section or the entire door at its expense.

RAYNOR MANUFACTURING COMPANY
DIXON, ILLINOIS

STOCK SIZES

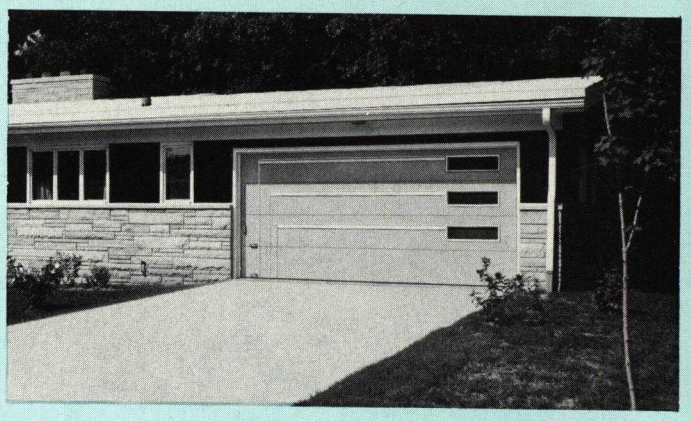
one-car	two-car
8'-0" X 6'-6"	15'-0" X 6'-6"
8'-0" X 7'-0"	15'-0" X 7'-0"
8'-0" X 8'-0"	16'-0" X 6'-6"
9'-0" X 6'-6"	16'-0" X 7'-0"
9'-0" X 7'-0"	16'-0" X 8'-0"
9'-0" X 8'-0"	17'-0" X 7'-0"
10'-0" X 7'-0"	18'-0" X 7'-0"

Special Sizes Available in All Doors

RAYNOR MFG. CO., DIXON, ILLINOIS

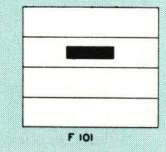
FLUSH DOORS

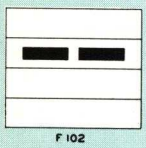
Raynor flush doors are constructed with rigid RAY-COR grid design. This special construction provides greater strength and durability and supplies a stronger foundation for the application of mouldings, rosettes or other designs. RAY-COR is constructed of sturdy ¼" interlocking strips of wood for a greater area of glue bond between the surface of the section and the core. Ray-Lux or exterior grade plywood is bonded to both sides of frame and grid with waterproof glue under great heat and pressure. No nails are used in Raynor flush doors to mar the beauty or cause unsightly rust stains.

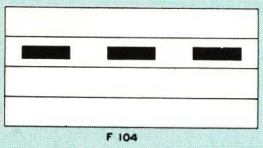


EXTERIOR ELEVATIONS

* These designs standard with lights on right side, specify "Lights left side" if desired.


F 101


F 102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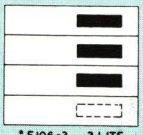
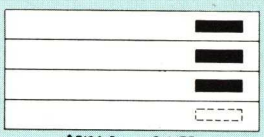
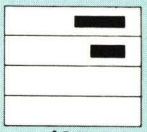
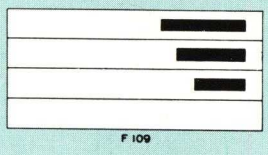
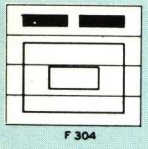
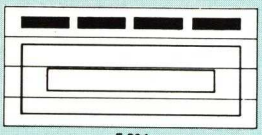

*F 106-3 3 LITE
F 106-4 4 LITE

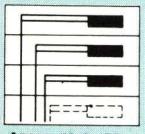

*F 106-3 3 LITE
F 106-4 4 LITE

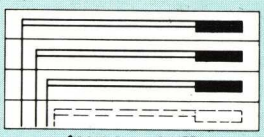

* F 109

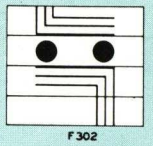

F 109


F 304


F 304


*F 306-3 3 LITE
F 306-4 4 LITE


*F 306-3 3 LITE
F 306-4 4 LITE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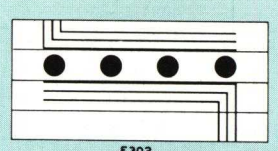
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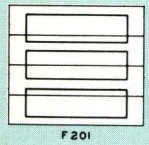
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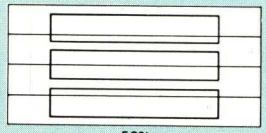
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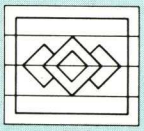
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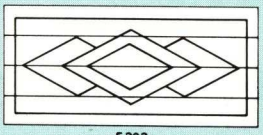
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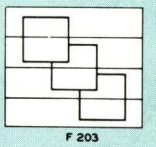
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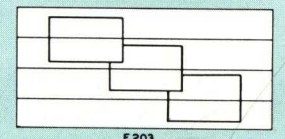
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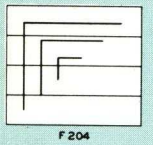
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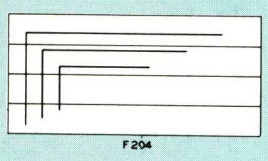
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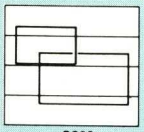
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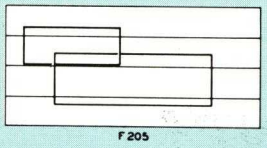
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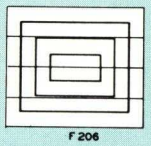
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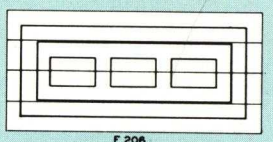
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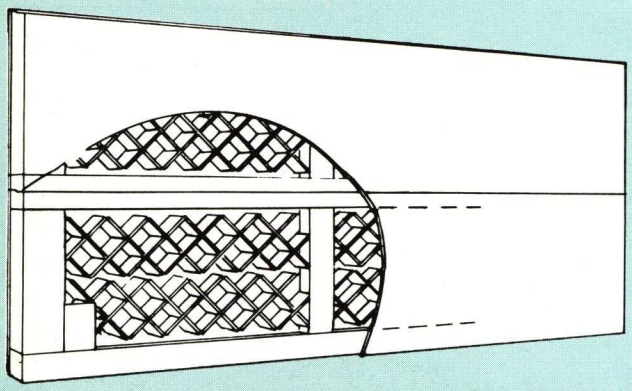
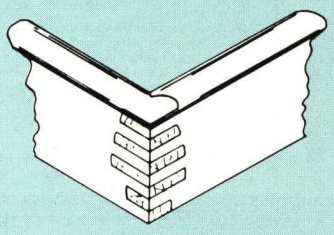


Interlocking finger joints guarantee against any parting or opening of corners — the shape of the moulding assures adequate drainage, never allowing water to stand on the frame to cause rot.



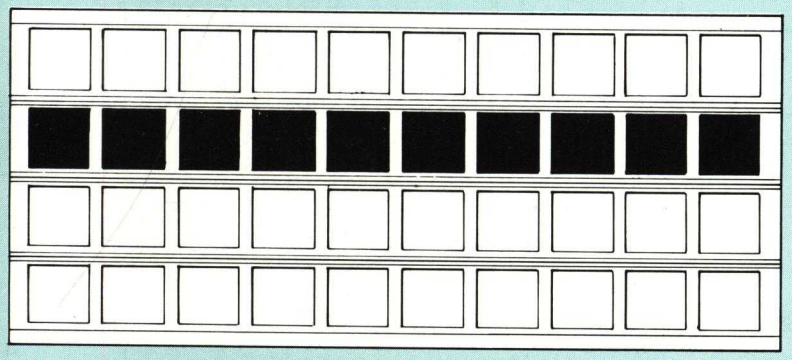
RAY-COR CONSTRUCTION

RAY-COR is a Raynor exclusive

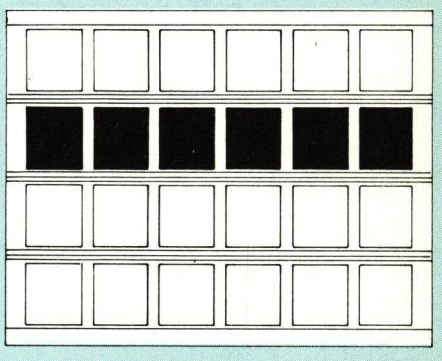
COLONIAL DOORS

Noted for its wide range of adaptability, the Colonial style is a favorite with home owners from coast to coast. Designed to give years of trouble-free service . . . easy to raise or lower in any weather.

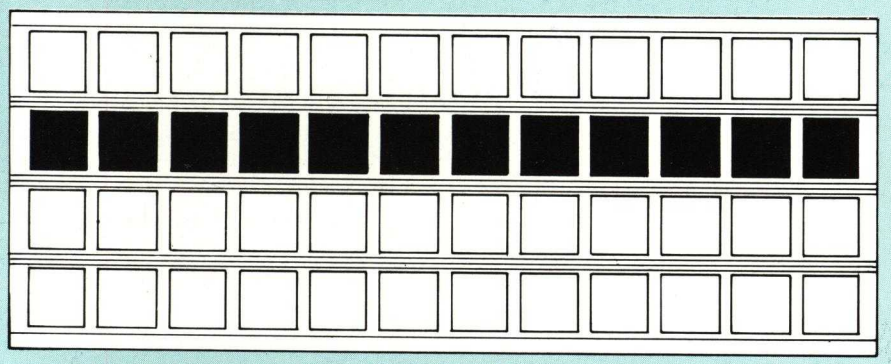
All quality construction — stiles and rails are 1 3/8" Douglas Fir, Sitka Spruce or equal. Panels are of 1/4" Ray-Lux with a lifetime guarantee or 1/4" exterior 3-ply Fir plywood. All joints are blind-mortised and tenoned, steel dowelled and waterproof glued. Doors sanded both sides, ready to paint. Stop moulding and glass moulding furnished.



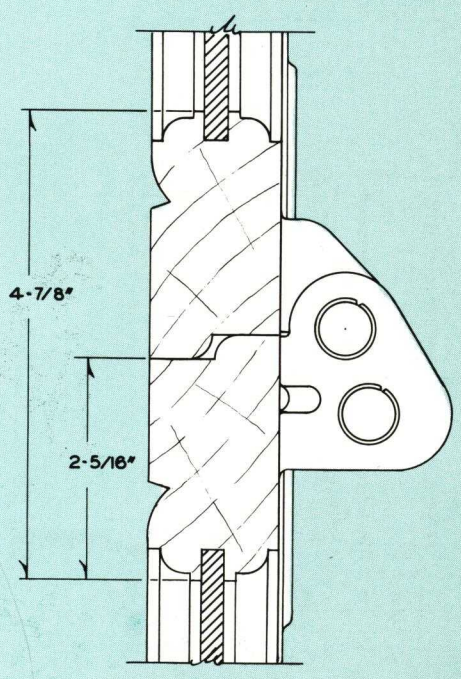
14', 15' & 16' WIDE



8', 9' & 10' WIDE



17' & 18' WIDE



SECTION THRU MEETING RAIL

Ray-Lux Lifetime Guarantee

The Raynor Manufacturing Company selected these door panels to give you the best in quality, beauty and service. These panels are guaranteed not to split, splinter, delaminate, or crack due to any natural conditions of weathering or exposure. If any Ray-Lux panels fail in this way, notify The Raynor Manufacturing Company giving conditions of failure. After verification of failure The Raynor Manufacturing Company will furnish a new door section or the entire door at its expense.

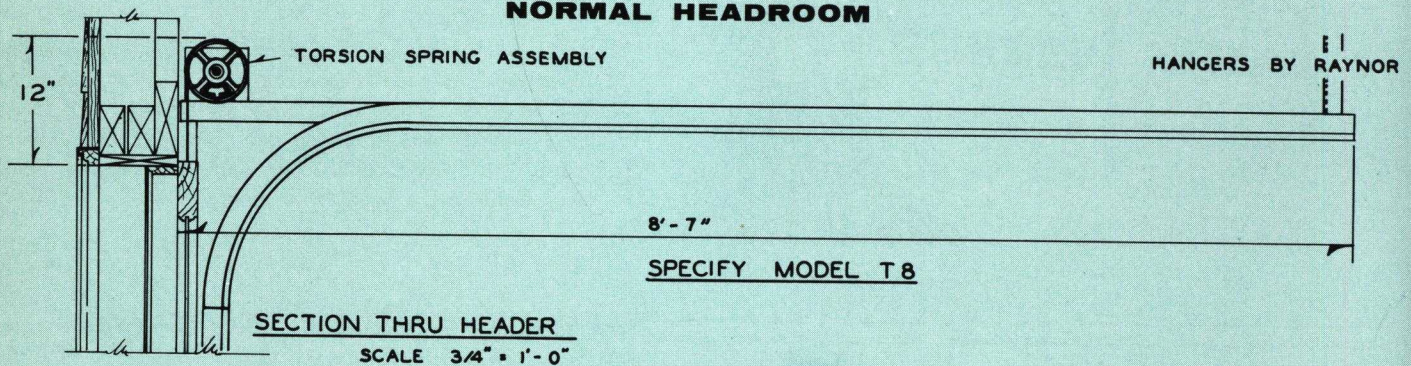
RAYNOR MANUFACTURING COMPANY
DIXON, ILLINOIS

RESIDENTIAL

ONE CAR torsion spring model T8

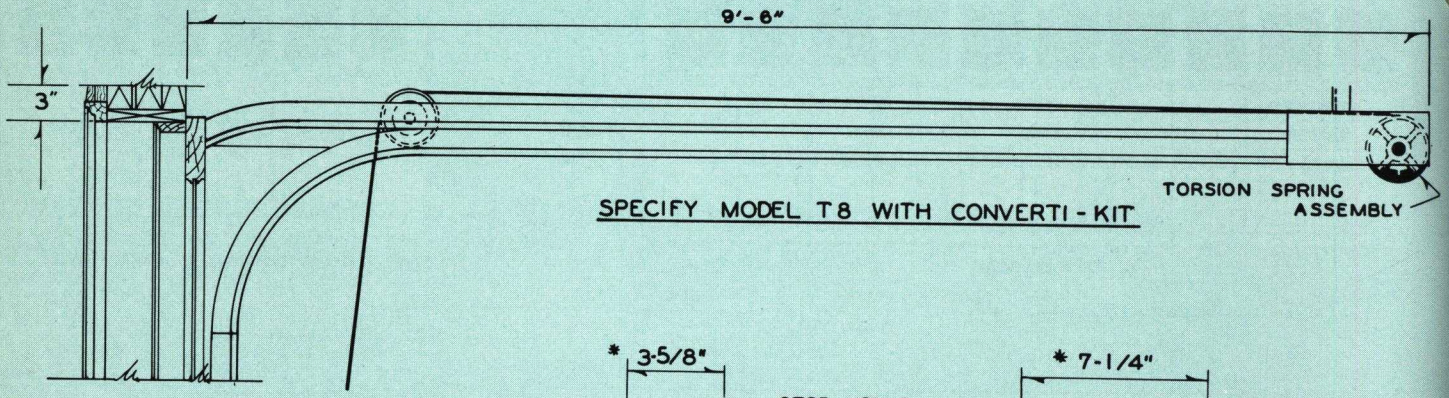
Available With Extension Springs Specify Model 70

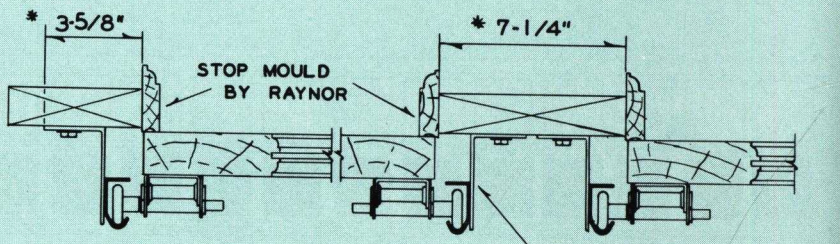
NORMAL HEADROOM



SECTION THRU HEADER
SCALE 3/4" = 1'-0"

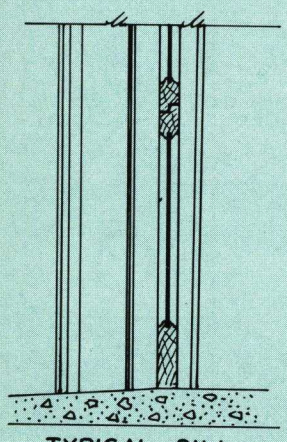
LOW HEADROOM



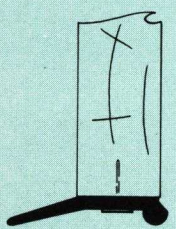


WOOD JAMBS
SCALE - 1-1/2" = 1'-0"

* WITH CONVERTI-KIT, SIDEROOM 4" CENTER POST 8"



TYPICAL SILL



Weatherstripping is recommended for application to the bottom rail of all doors. It seals any minor irregularities in the floor and acts as a cushion in closing. Specify "Astragal."

SPECIFICATIONS: Doors shall be Raynor Model T8 1 3/8" thick, clear Douglas fir or equal. Panels shall be 1/4" Ray-Lux with lifetime guarantee.

2" galvanized steel track with GRADUATED SEAL for Weathertite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track bracket mounted for wood jambs.

Doors shall be counterbalanced with heavy duty torsion springs on continuous ball bearing cross header shaft.

Five pin tumbler cylinder side lock or center lock. Side lock may be installed on right or left side.

Rollers shall be full ball bearing type.

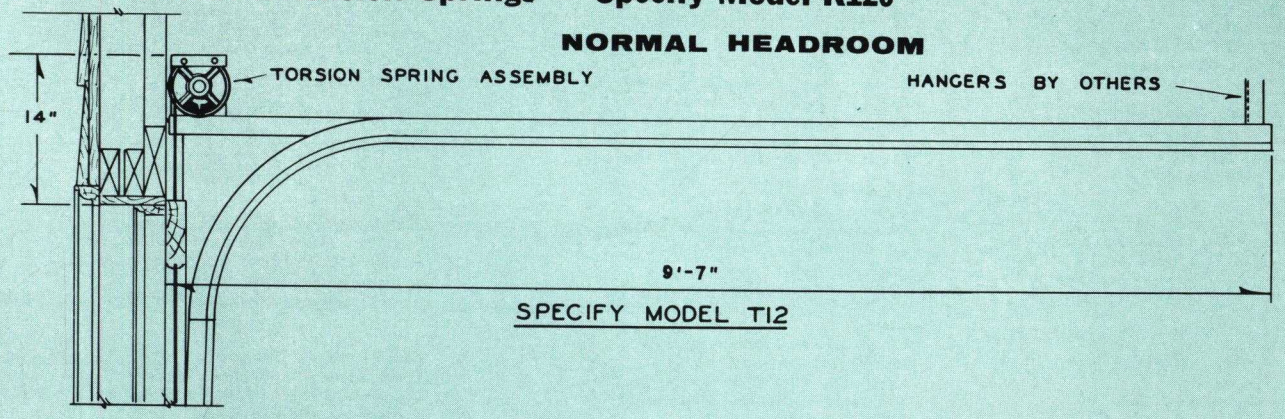
Doors shall be guaranteed for one year against defective material or workmanship.

Manual or electrically operated.

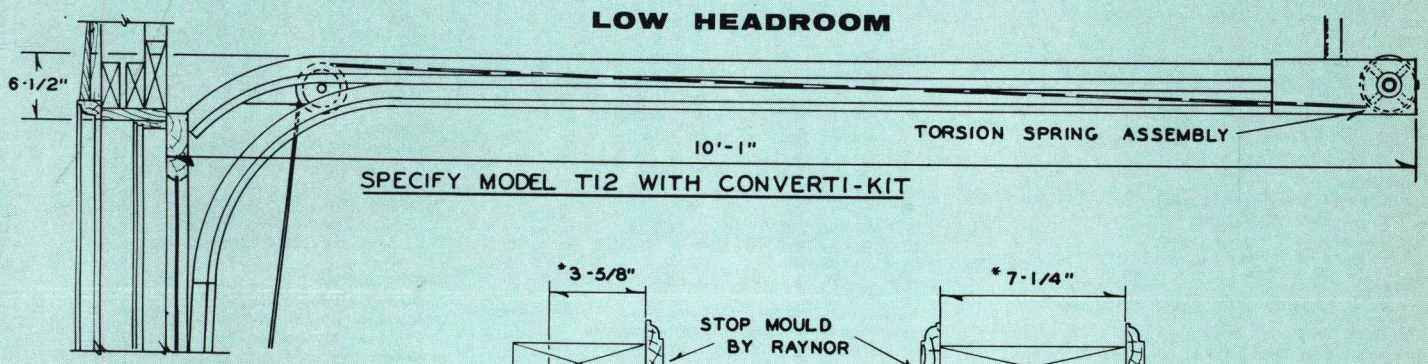
HARDWARE

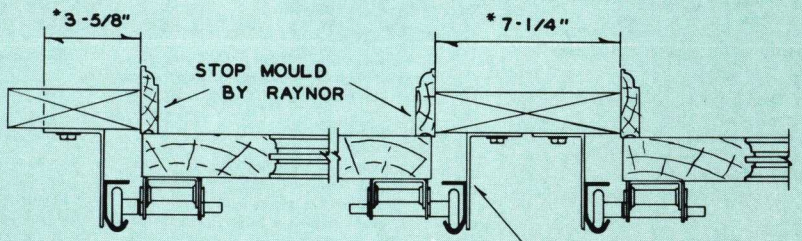
TWO CAR torsion spring model T12

Available With Extension Springs Specify Model R120



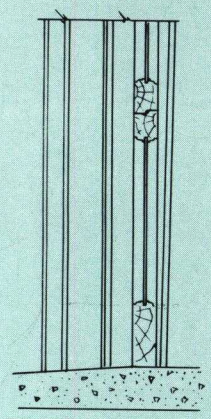
SECTION THRU HEADER
SCALE - 3/4" = 1'-0"



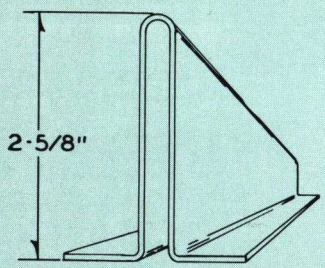


WOOD JAMBS
SCALE - 1-1/2" = 1'-0"

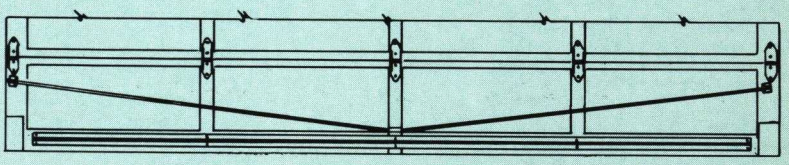
* WITH CONVERTI-KIT, SIDEROOM 5" - CENTERPOST - 10"



TYPICAL SILL



U-BAR STIFFENER



TRUSSED BOTTOM SECTION

SPECIFICATIONS: Doors shall be Raynor Model T12 1⅜" thick, clear Douglas fir or equal. Panels shall be ¼" Ray-Lux with lifetime guarantee.

2" galvanized steel track with GRADUATED SEAL for Weather-tite closing. All hinges, brackets, etc., of heavy gauge galvanized steel. Vertical track bracket mounted for wood jambs.

Doors shall be counterbalanced with heavy duty torsion springs on continuous ball bearing cross header shaft.

Five pin tumbler cylinder side lock, right or left side installation.

Rollers shall be heavy duty ball bearing type with hardened races.

Doors shall be reinforced with at least three U bar stiffeners, minimum 2⅝" deep, of galvanized steel.

Doors having wide panel construction are furnished with a special truss rod to prevent vertical deflection.

Doors shall be guaranteed for one year against defective material or workmanship.

Manual or electrically operated.

RAYNOR SALES OUTLETS

ALASKA
Fairbanks—*R. A. Davenny & Assoc.*

ALABAMA
Birmingham—*Barton Building Products Co.*
Montgomery—*Southern Sash of Montgomery*
Sheffield—*Southern Sash Wholesale*

ARIZONA
Phoenix—*Beach Building Specialties Inc.*

ARKANSAS
Fort Smith—*Morgan Supply Co.*
Jonesboro—*Carr-Adams Mfg. Co.*

CALIFORNIA
Carmichael—*Valley Overhead Door Co.*
Palmdale—*Edward's Overhead Garage Door Co.*
San Luis Obispo—*Croker-Raynor Door Sales*

COLORADO
Denver—*Ankmar Door Co.*
Fort Collins—*Wilkinson Lumber Company*
Grand Junction—*Wholesale Building Supply Co.*
Pueblo—*The Building Material Center, Inc.*

CONNECTICUT
Trumbull—*Kenneth Berchem*
Middlebury—*Waterbury Door Co.*
Plantsville—*Wood & Wood's, Inc.*

DISTRICT OF COLUMBIA
Washington, D.C.—*James Cassidy Company*

FLORIDA
Fort Lauderdale—*Floridale Products Inc.*
Jacksonville—*Builders Products Co.*
Panama City—*Panama Machinery & Supply*
Pensacola—*City Steel & Supply*
Sarasota—*Steiner Bldg. Supply Co.*
Tampa—*Denton & Company*

GEORGIA
Augusta—*Slusky Builders Supply, Inc.*
Savannah—*McCarthy, Inc.*
Tifton—*Short & Paulk Company*
Valdosta—*J. N. Bray Company*

IDAHO
Boise—*Idaho Acoustical & Bldg. Specialties*

ILLINOIS
Bloomington—*Weeks Raynor Door Sales*
Elgin—*William E. Kerchenfaut*
Peoria—*N. W. Miller Door Co.*
Rockford—*Mott Bros. Company*
Skokie—*Chicago Door Corp.*
Springfield—*Springfield Builders Supply Co.*

INDIANA
Bedford—*Bedford Building Supply Co.*
Evansville—*Lensing Wholesale Inc.*
Fort Wayne—*Great Lakes Distributing Corp.*
Gary—*Roy E. Appleton*
Indianapolis—*Keystone Distributors, Inc.*
Logansport—*Great Lakes Distributing Corp.*
South Bend—*Great Lakes Distributing Corp.*

IOWA
Bettendorf—*Raynor Door Sales*
Clinton—*Builders Supply Company*
Des Moines—*Raynor Door Company*
Sioux City—*Burke Engineering Sales*
Hawkeye Building Supply Co.

KANSAS
Topeka—*Topeka Builders Supply, Inc.*
Wichita—*Wichita Builders Supply Co.*

KENTUCKY
Lexington—*Eubank Lumber Co.*
Louisville—*Raynor Door Sales of Louisville*

LOUISIANA
Lake Charles—*Bahnsen Supply Company*
New Orleans—*A. F. Livaudais Co.*

MAINE
Portland—*Maine Home Insulation Co.*

MARYLAND
Baltimore—*Raynor Sales Company, Div. of Associated Building Specialists*
Cumberland—*Valley Lumber Co., Inc.*

MASSACHUSETTS
Avon—*South Shore Door Company*
East Hampton—*Charles J. Barkowski*
Worcester—*A. R. Woll Company*

MICHIGAN
Battle Creek—*Felix J. Brown & Sons*
Detroit—*Raynor Door Sales of Detroit*
Flint—*Quality Door & Lumber Company*
Grand Rapids—*G & K Distributing Co., Inc.*
Rapid River—*Anderson Lumber Company*
Saginaw—*Quality Door & Lumber Company*

MINNESOTA
Duluth—*Scott Graff Company*
Minneapolis—*George A. Clark & Son*
St. Paul—*Midway Lumber Company*

MISSISSIPPI
Jackson—*Mississippi Metal Products, Inc.*

MISSOURI
Eldon—*Simmons Supply & Mfg. Co.*
Joplin—*Joplin Cement Company*
Kansas City—*R. L. Sweet Lumber Co.*
Springfield—*Southwestern Insulation & Material Co.*
St. Louis—*Huttig Sash & Door Co.*
Maplewood—*Maplewood Planing Mill & Stair Co.*

MONTANA
Bozeman—*Empire Building Material, Inc.*
Havre—*Havre Builders Supply Company*

NEBRASKA
Lincoln—*Hawkeye Building Supply Co.*
Lincoln—*Holland Engineering Sales Co.*
North Platte—*R. S. Storm & Company*
Omaha—*Holland Engineering Sales Co.*
Omaha—*Holland Lumber Co.*
Scottsbluff—*Waite Lumber Company*

NEW JERSEY
Hammonton—*Perrone Door Company*
Paramus—*Murray & McKay*
Trenton—*Martens*

NEW MEXICO
Albuquerque—*Rose Door Company*
Farmington—*Construction Supply Company*
Sante Fe—*Sante Fe Builders Supply*

NEW YORK
Albany—*Richards Overhead Door Sales Co.*
Binghamton—*Raynor Overhead Door Co.*
Buffalo—*Hawkes Supply Company*
Cortland—*Roland Nye*
Elmira—*Robinson Building Materials, Inc.*
Liberty—*Carl Hamlin*
Liverpool—*Raynor Overhead Door Sales*
Long Island—*Raynor Door Sales, Div. of Meteor Sales Corp., Mineola, L. I.*
Newburgh—*Musco Door Sales Company*
Niagara Falls—*Frank Vaughan Company*
Orchard Park—*Stewart Door Company*
Sauquoit—*Miller Overhead Door Company*
South Glens Falls—*Marino-Raynor Overhead Door Sales*
Staten Island—*Elgin Supply Company*

NORTH CAROLINA
Charlotte—*Atlas Building & Erection Co.*
Wilmington—*Queensboro Steel Corp.*

NORTH DAKOTA
Bismarck—*Builders Supply Co.*
Fargo—*Structural Products, Inc.*
Minot—*Minot Builders Supply*

OHIO
Akron—*Akron Garage Doors by Raynor*
Canton—*A. L. Callahan Door Sales*
Columbus—*Columbus Coal & Lime Co.*
Dayton—*Raynor-Dayton, Inc.*
Elyria—*Elyria Enterprises*
Mansfield—*City Builders Supply Company*
Springfield—*C. W. Stewart*
Toledo—*Acme Automatic Door Co.*
Youngstown—*L. D. Sheffield & Sons*
Zanesville—*V. H. Roush*

PENNSYLVANIA
Bethlehem—*General Supply Company*
Philadelphia—*Belmont Raynor Door Co.*
Pittsburgh—*J. J. Englert Company*
Reading—*Merritt Lumber Yards*
Scranton—*Muldoon Brothers*

SOUTH CAROLINA
Columbia (Cayce)—*Steel Fabricators, Inc.*

SOUTH DAKOTA
Sioux Falls—*Lumbermen's Supply Company*

TENNESSEE
Chattanooga—*Valley Supply Company*
Knoxville—*Knoxville Structural Steel Co., Inc.*
Memphis—*Modern Doors and Windows, Inc.*
Morristown—*Morristown Supply Co.*
Nashville—*Nashville Sash and Door Co.*

TEXAS
Abilene—*Hyde & Company*
Corpus Christi—*Custom Door Company*
Dallas—*Glide-A-Way Overhead Door Co.*
El Paso—*Hunt Building Marts*
Fort Worth—*Cains Builders Supply Co.*
Houston—*California Overhead Door Co.*
McAllen—*Palmer Building Supplies & Specialties*

UTAH
Salt Lake City—*Western Overhead Door Co.*

VERMONT
Winooski—*Vermont Construction Supply Co.*

VIRGINIA
Richmond—*J. S. Archer Company*
Roanoke—*Skyline Lumber Co., Inc.*

WASHINGTON
Seattle—*Standard Door Company*
Spokane—*Garceau Steel Structures*

WEST VIRGINIA
Huntington—*Portal Shutter Co.*
Martinsburg—*Thorn Lumber Co.*
Weirton—*Raymond A. Crum*
Wheeling—*Karr Supply*

WISCONSIN
Green Bay—*Barry Raynor Garage Doors*
La Crosse—*Lumbermen's Service*
Madison—*Ace Door Company*
Menasha—*G. R. Schommer*
Milwaukee—*Raynor Door Sales, Inc.*
Wausau—*George H. Urban Co.*
Wisconsin Rapids—*Tri City Ins. & Doors Co.*

WYOMING
Casper—*Rex Robertson Co.*

CANADA

ALBERTA
Calgary—*Westcon Concrete Products Ltd.*
Edmonton—*Westcon Concrete Products Ltd.*

BRITISH COLUMBIA
Vancouver—*F. T. Clarke & Son*

MANITOBA
Winnipeg—*Westcon Concrete Products Ltd.*

ONTARIO
Ottawa—*Ambassador Sales of Ottawa County Ltd.*
Ottawa—*G. T. Green Hardware, Ltd.*
Windsor—*Standard Equipment Co.*

QUEBEC
Montreal—*R. J. Stampings Co., Ltd.*

SASKATCHEWAN
Regina—*Westcon Concrete Products Ltd.*
Saskatoon—*Westcon Concrete Products Ltd.*

SOUTH AFRICA
Capetown—*K. R. Sales (Pty.) Ltd.*

RAYNOR MFG. CO., DIXON, ILLINOIS • HAMMONTON, NEW JERSEY

Form No. 460

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